

FIG. 1

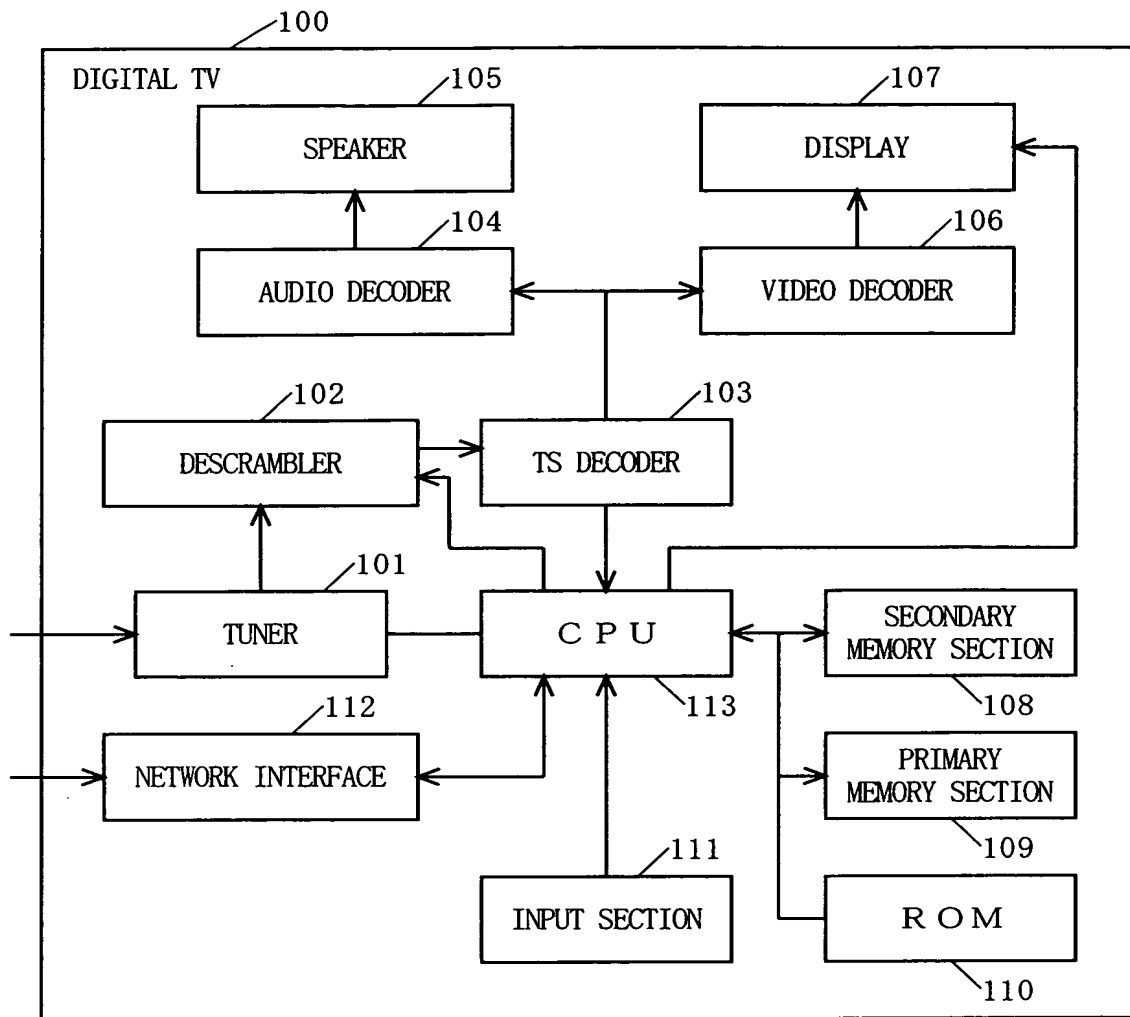


FIG. 2

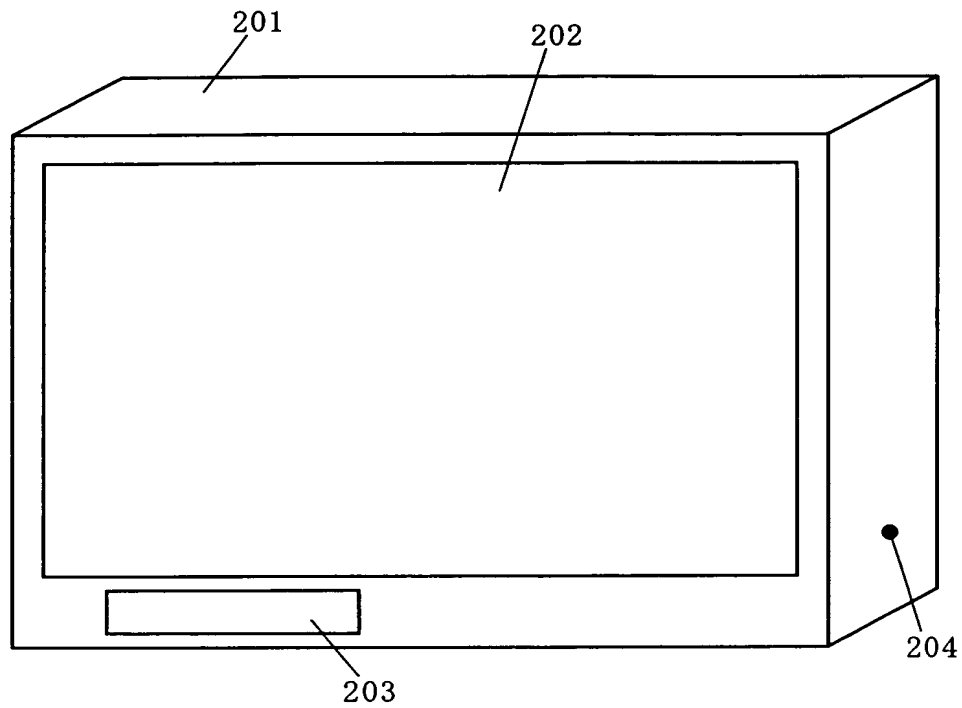


FIG. 3

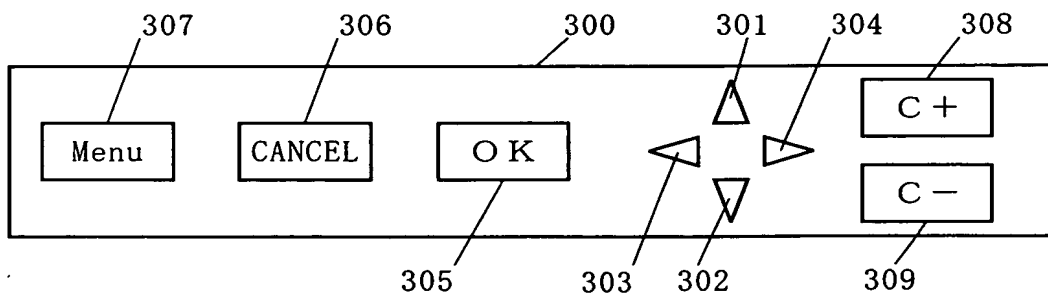
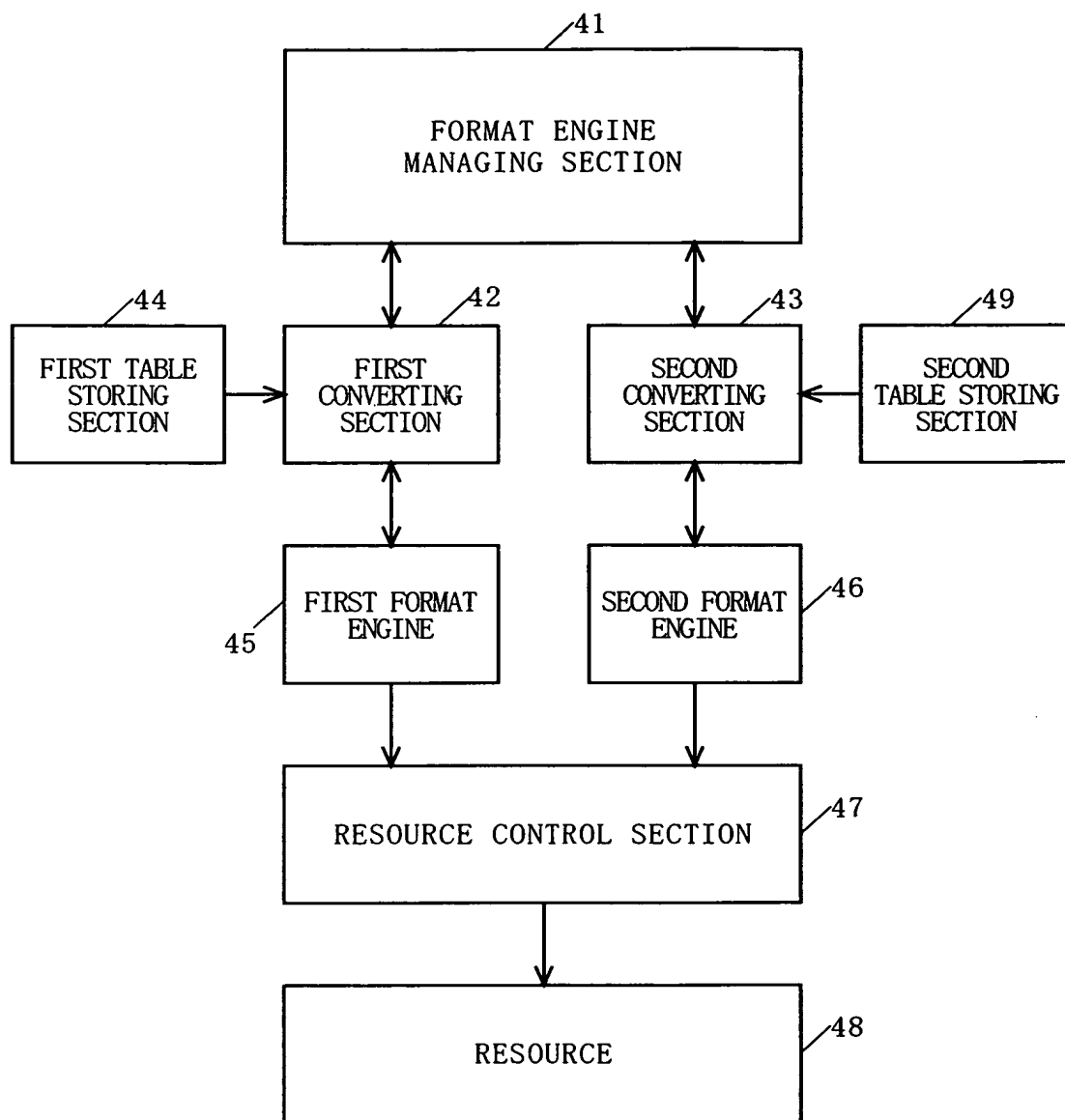


FIG. 4



F I G. 5

(a)

COMMON STATE	INDIVIDUAL STATE OF THE FIRST FORMAT ENGINE
DURING EXECUTION	IN OPERATION
TERMINATED	AT A STOP
	AT A PAUSE

(b)

COMMON STATE	INDIVIDUAL STATE OF THE SECOND FORMAT ENGINE
DURING EXECUTION	ACTIVE
TERMINATED	NON-ACTIVE

FIG. 6

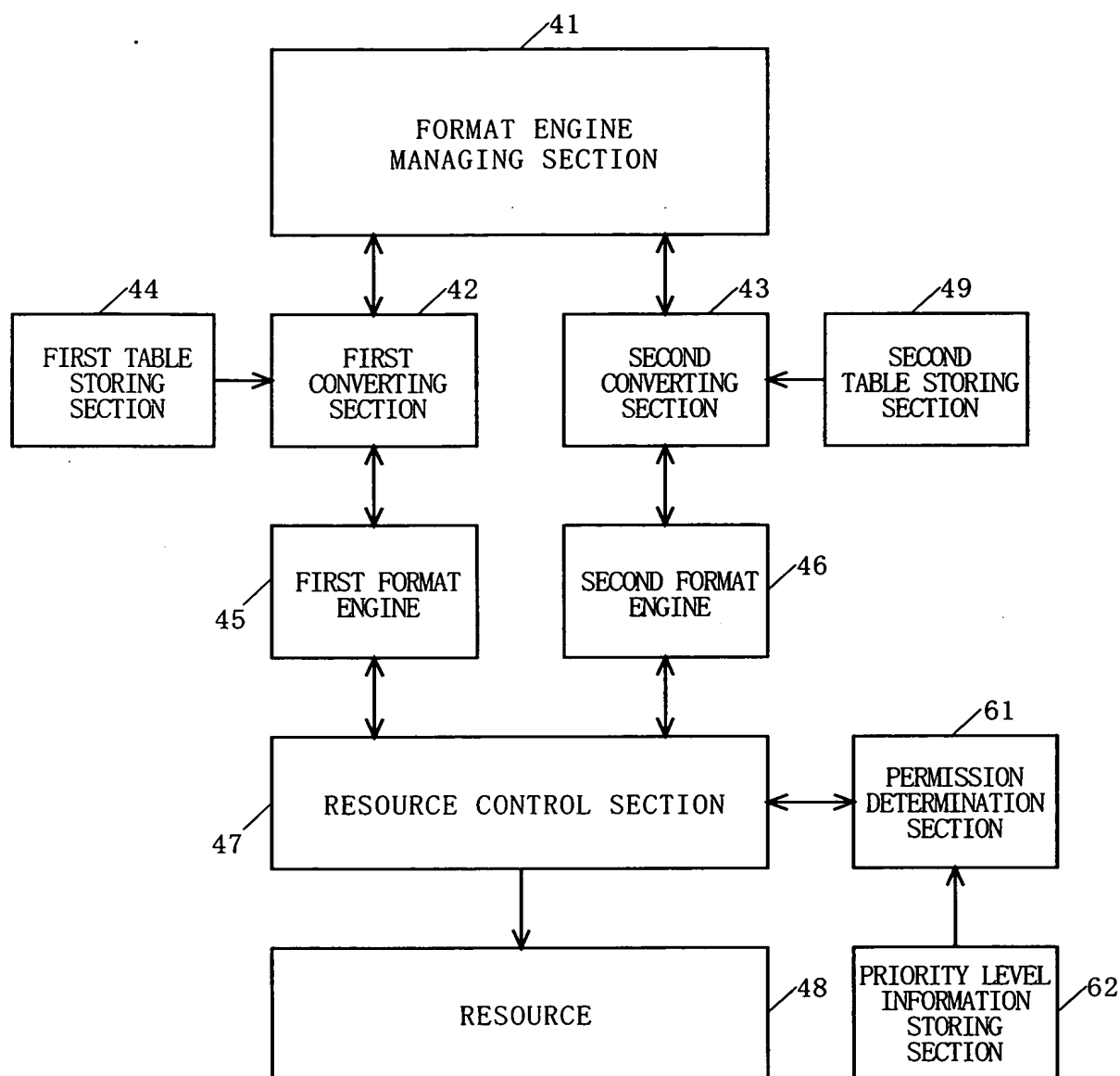
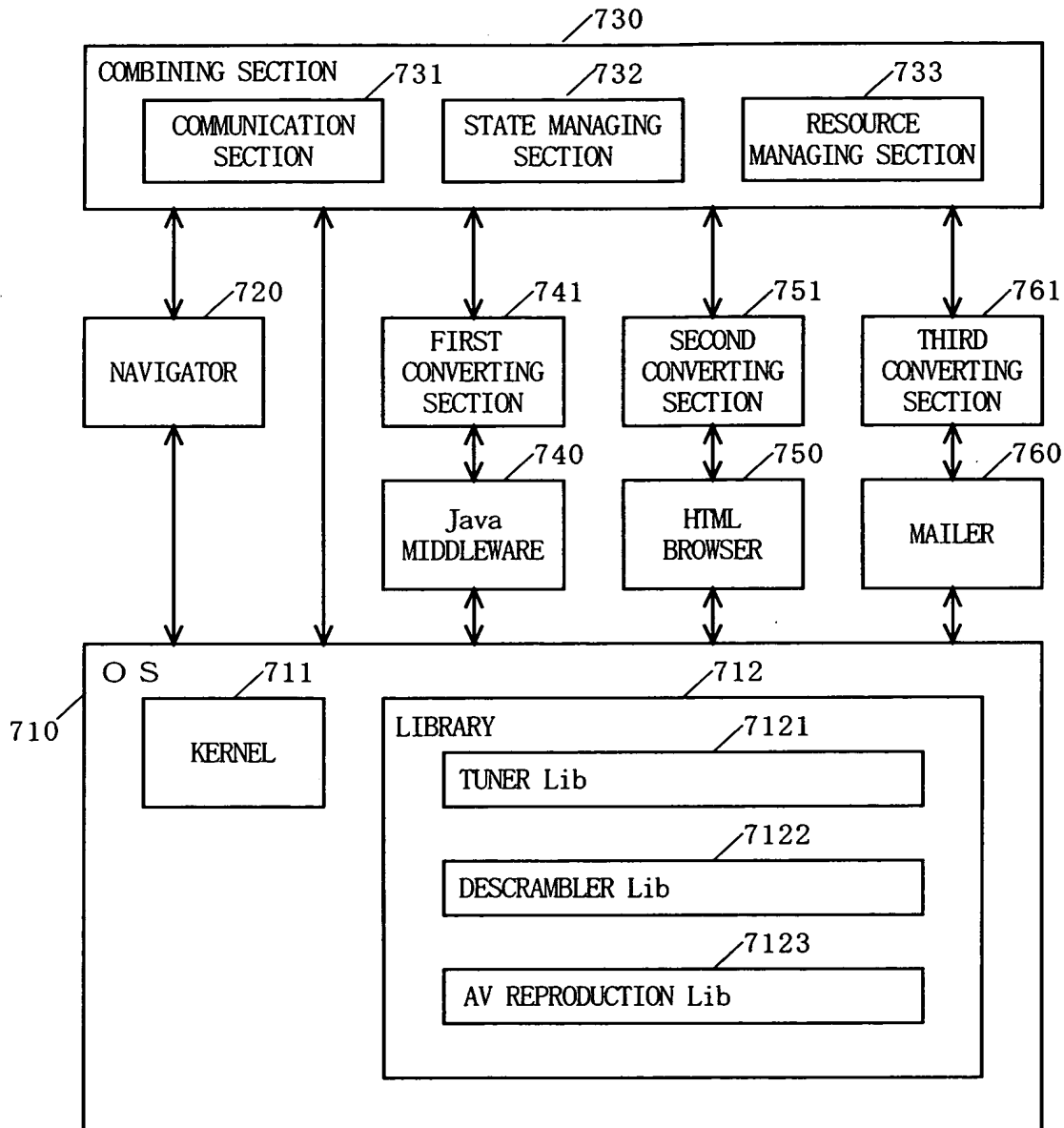
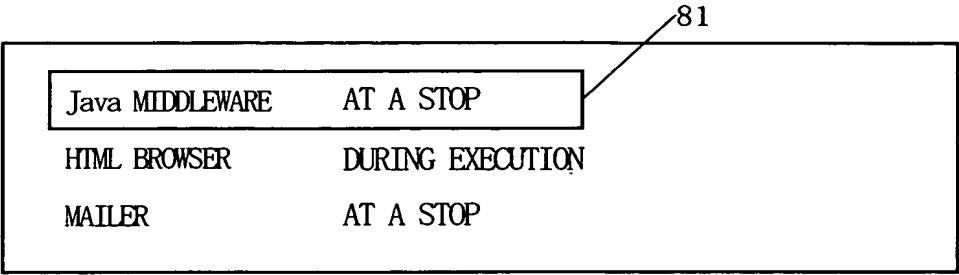


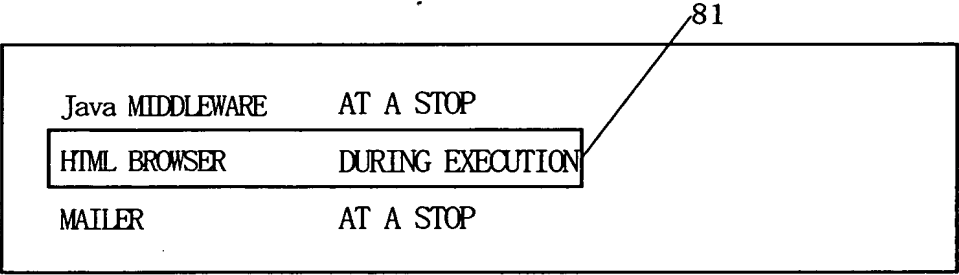
FIG. 7



F I G . 8



F I G . 9



F I G . 10

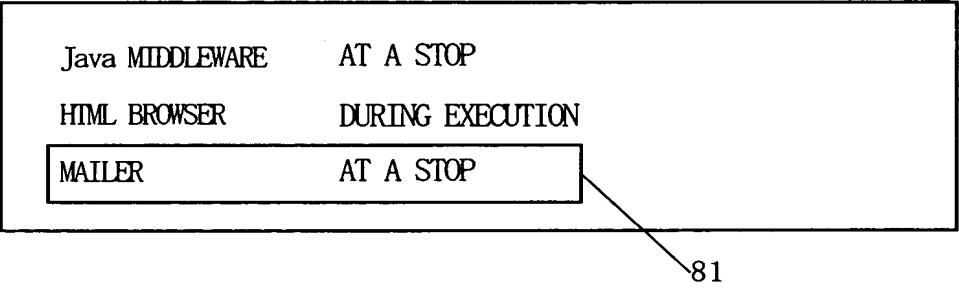


FIG. 11

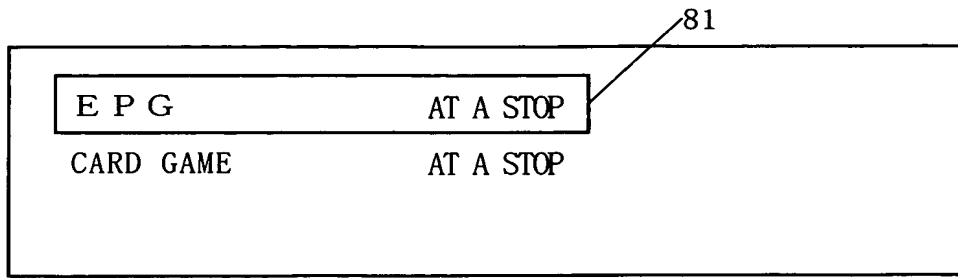


FIG. 12

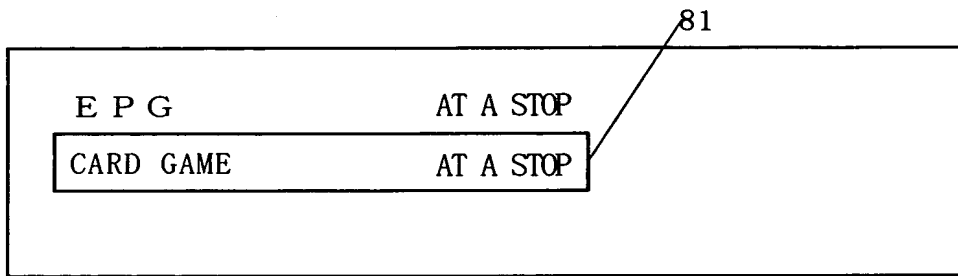


FIG. 13

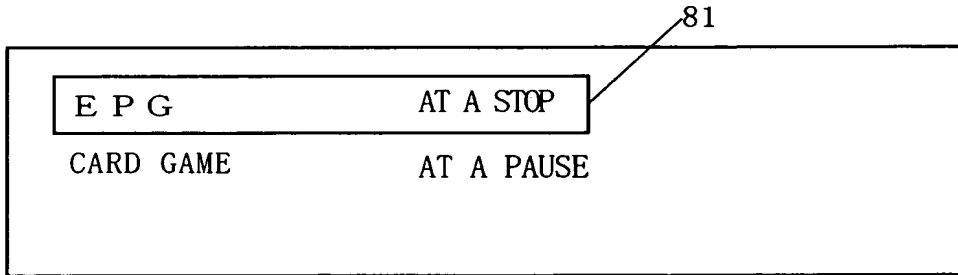


FIG. 14

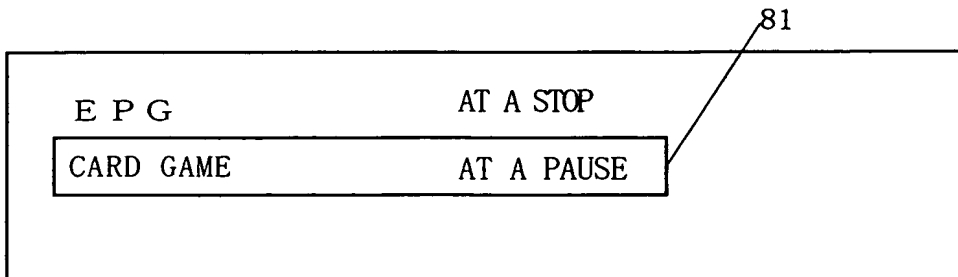


FIG. 15

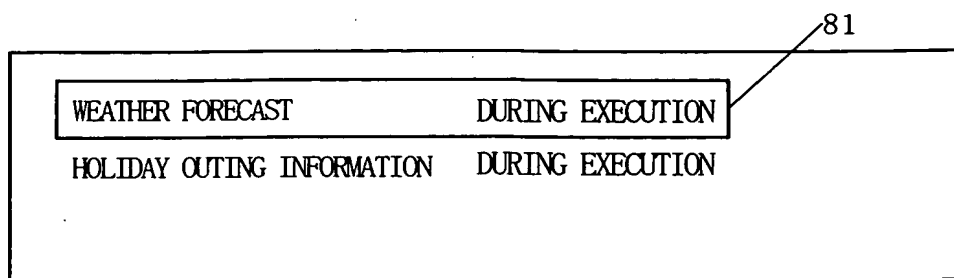


FIG. 16

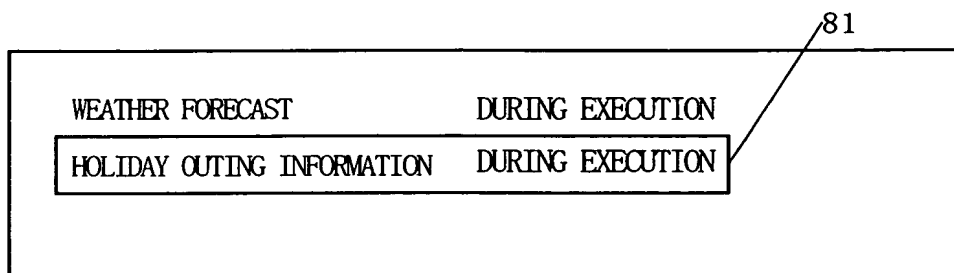
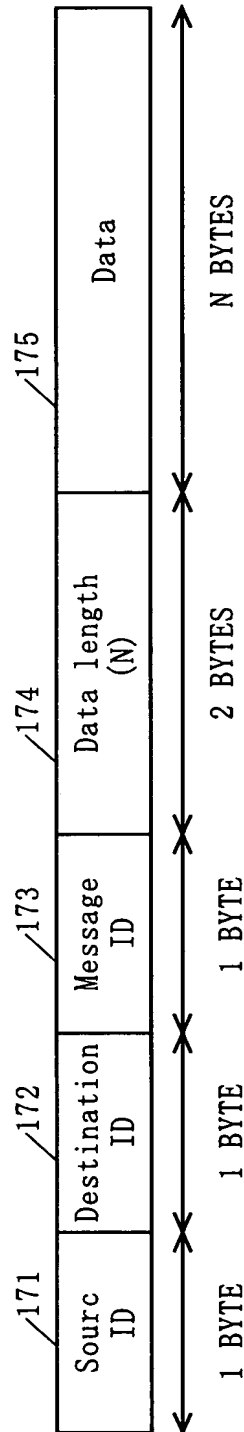


FIG. 17



F I G . 1 8

SUB PROGRAM	S I D
A L L	0
NAVIGATOR	1
Java MIDDLEWARE	2
HTML BROWSER	3
MAILER	4
COMBINING SECTION	5

F I G . 1 9

MESSAGE	M I D	FORMAT ID
FORMAT ENGINE STATE REQUEST	1	NOT AVAILABLE
FORMAT ENGINE STATE RESPONSE	2	F O 1
FORMAT ENGINE STATE CHANGED	3	NOT AVAILABLE
EXECUTE FORMAT ENGINE	4	NOT AVAILABLE
TERMINATE FORMAT ENGINE	5	NOT AVAILABLE
PAUSE FORMAT ENGINE	6	NOT AVAILABLE
APPLICATION/DATA LIST REQUEST	1 1	NOT AVAILABLE
APPLICATION/DATA LIST RESPONSE	1 2	F O 2
APPLICATION/DATA LIST CHANGED	1 3	NOT AVAILABLE
EXECUTE APPLICATION/DATA	1 4	F O 3
TERMINATE APPLICATION/DATA	1 5	F O 3
PAUSE APPLICATION/DATA	1 6	F O 3
PRIVATE	2 1	—

FIG. 20

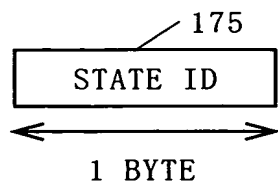


FIG. 21

STATE NAME	MEANING	OPERATING STATE ID
DURING EXECUTION	USING A MINIMUM RESOURCE	1
AT A PAUSE	USING SHARABLE RESOURCE	2
AT A STOP	NOT USING A RESOURCE	3

FIG. 22

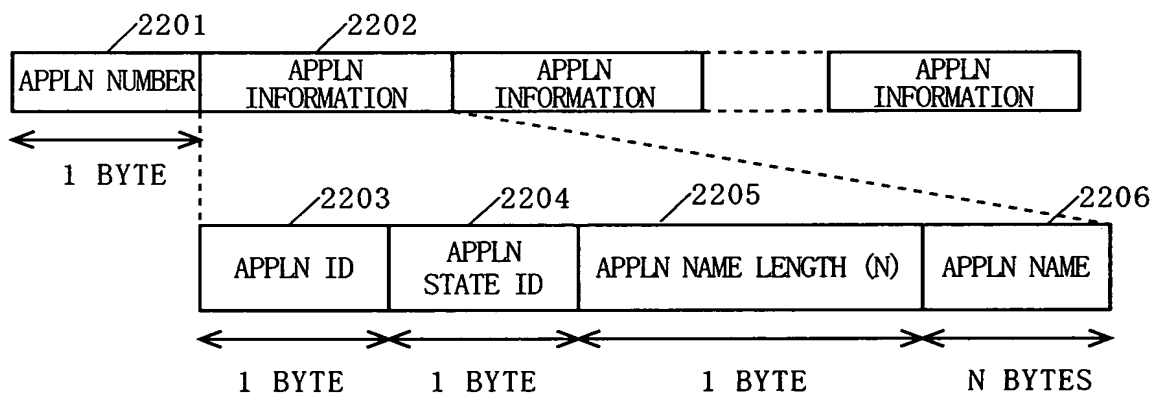


FIG. 23

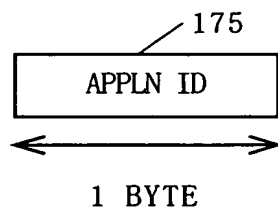


FIG. 24

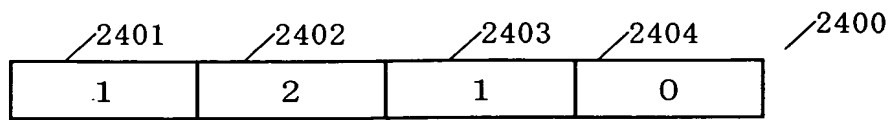


FIG. 25

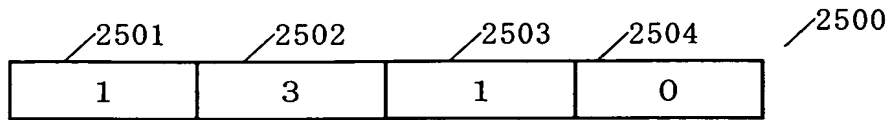


FIG. 26

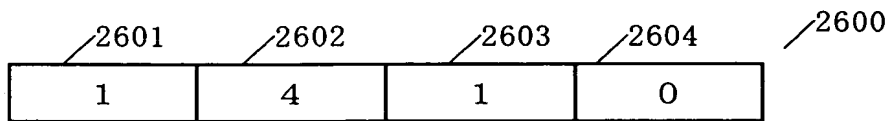


FIG. 27

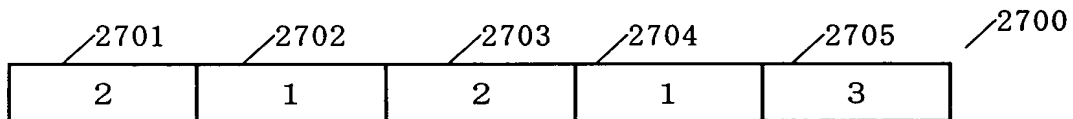


FIG. 28

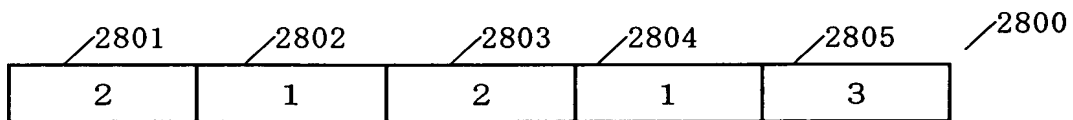


FIG. 29

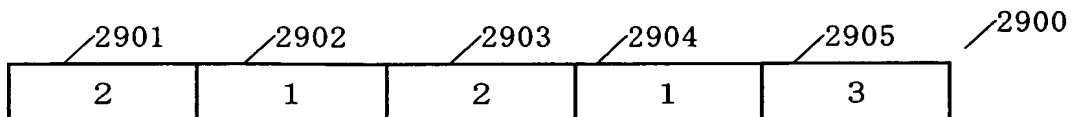


FIG. 30

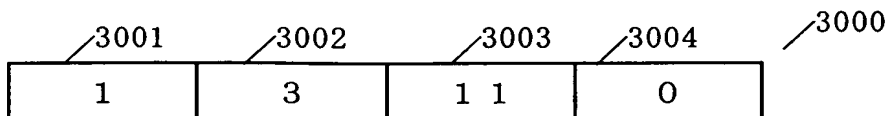
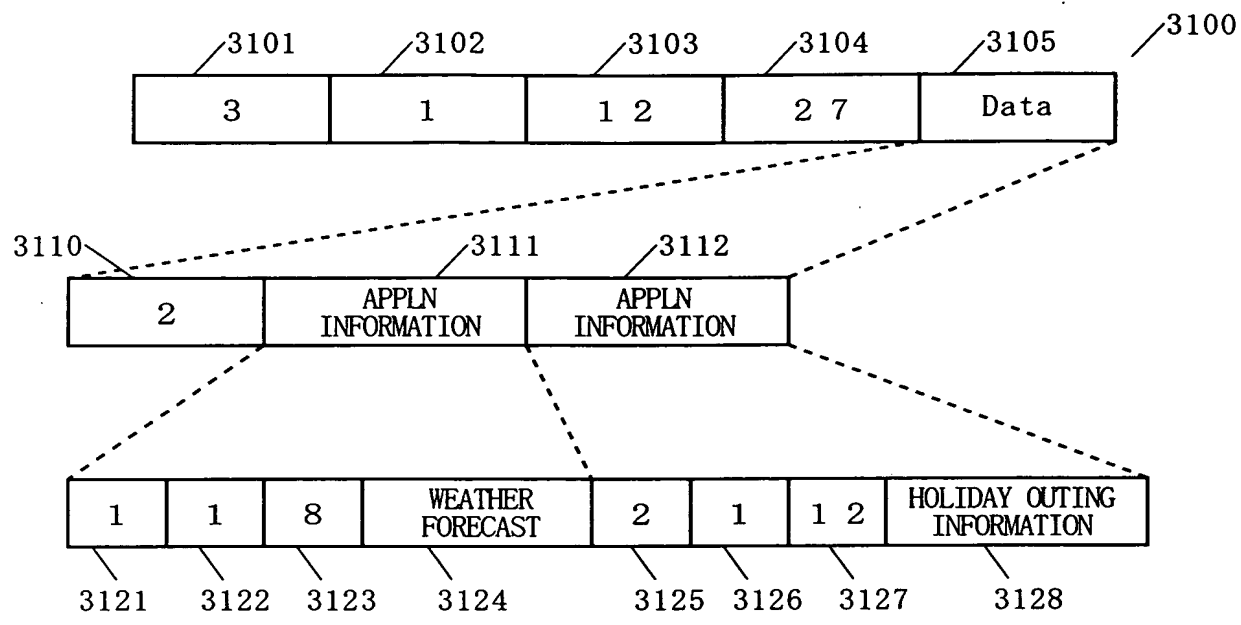


FIG. 31



F I G . 3 2

F I D	FORMAT ENGINE NAME	STATE ID	APPLN INFORMATION
2	Java MIDDLEWARE	3	0x5678
3	HTML BROWSER	3	0x7162
4	MAILER	3	NULL

F I G . 3 3

A I D	APPLN NAME	STATE ID
1	E P G	3
2	CARD GAME	3

F I G . 3 4

DATA ID	APPLN NAME	STATE ID
1	WEATHER FORECAST	1
2	HOLIDAY OUTING INFORMATION	1

FIG. 35

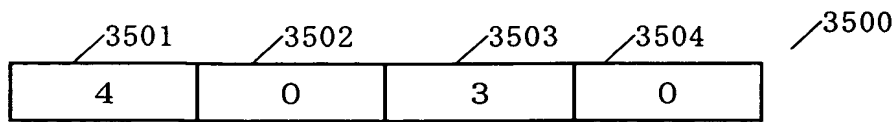


FIG. 36

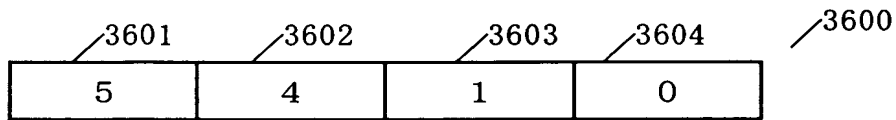


FIG. 37

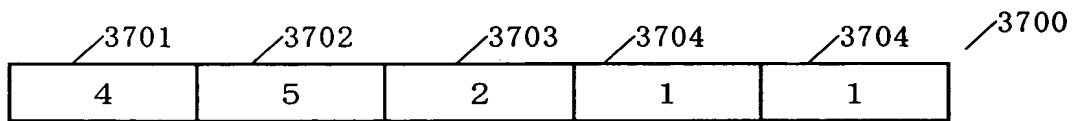
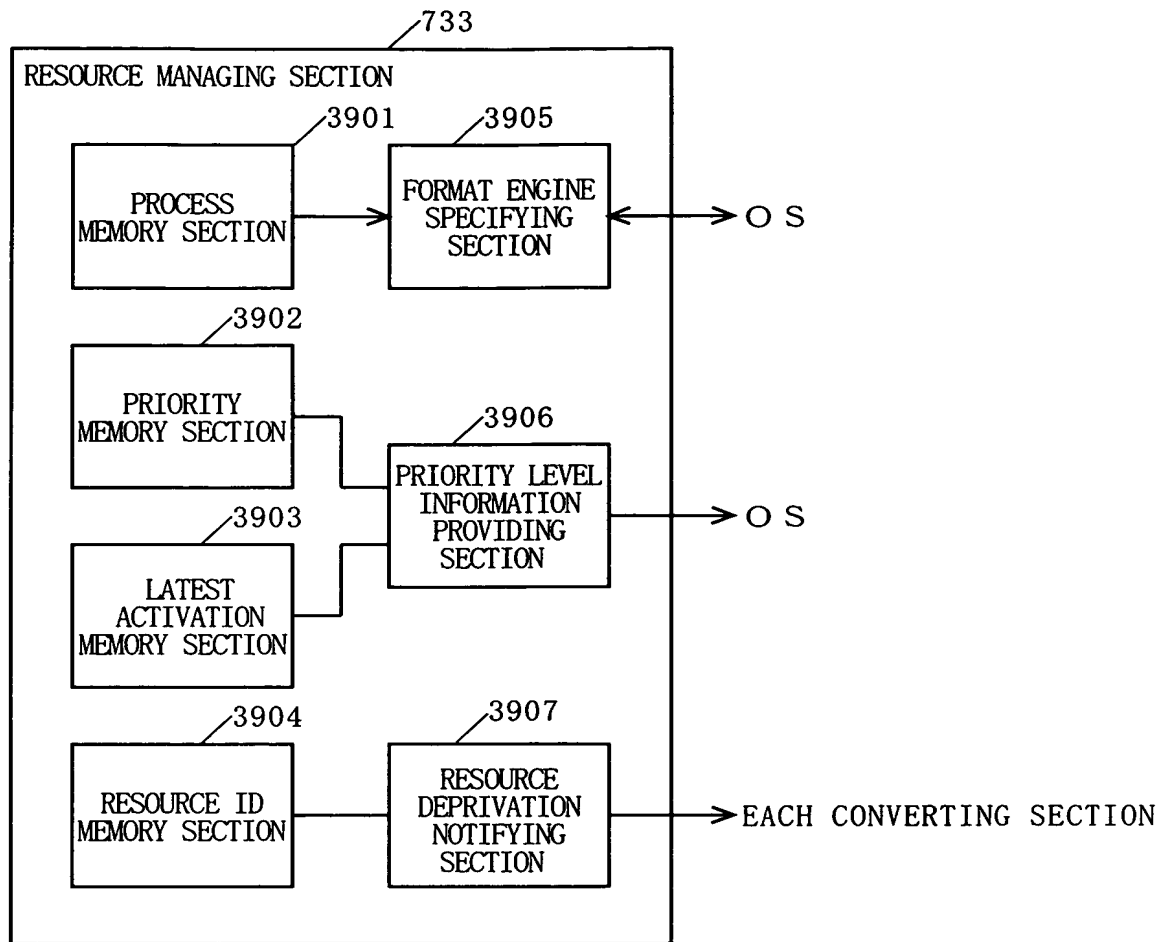


FIG. 38

F I D	FORMAT ENGINE NAME	STATE ID	APPLN INFORMATION
2	Java MIDDLEWARE	3	0x5678
3	HTML BROWSER	3	0x7162
4	MAILER	1	NULL

FIG. 39



F I G . 4 0

F I D	PROCESS ID
2	1 0 0
3	1 1 0
4	1 2 0

F I G . 4 1

F I D	PRIORITY LEVEL
2	2
3	1
4	3

F I G . 4 2

4

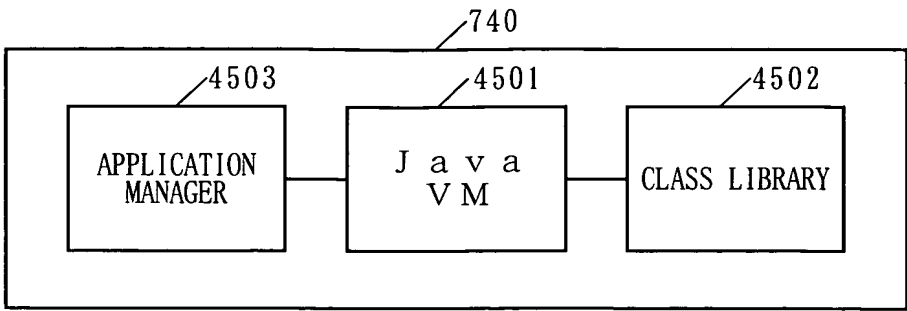
F I G . 4 3

R I D	RESOURCE
1	TUNER
2	TS DECODER
3	AUDIO DECODER
4	VIDEO DECODER
5	NETWORK INTERFACE

F I G . 4 4

```
#define RESOURCE_ID_TUNER 1
#define RESOURCE_ID_TSDECODER 2
#define RESOURCE_ID_AUDIODECODER 3
#define RESOURCE_ID_VIDEODECODER 4
#define RESOURCE_ID_NETWORK 5
```

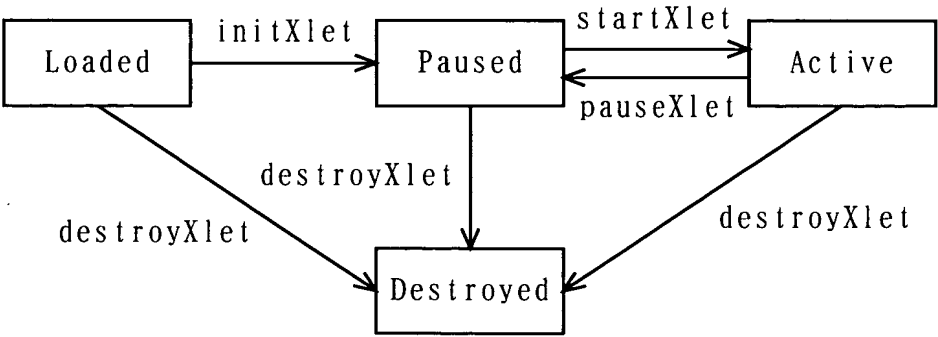
F I G . 4 5



F I G . 4 6

A I D	CONTROL INFORMATION	APPLN NAME	APPLN PRIORITY LEVEL
1	autostart	E P G	6 4
2	present	CARD GAME	3 2

F I G . 4 7



F I G . 4 8

A I D	CONTROL INFORMATION	APPLN NAME	APPLN PRIORITY LEVEL
1	kill	E P G	6 4
2	present	CARD GAME	3 2

FIG. 49

STATE OF THE APPLICATION	STATE OF THE Java MIDDLEWARE
AT LEAST ONE APPLICATION IS IN THE "Active" STATE	DURING EXECUTION
NO APPLICATION IS IN THE "Active" STATE AND AT LEAST ONE APPLICATION IS IN THE "Paused" STATE	AT A PAUSE
OTHER THAN THE ABOVE	AT A STOP

FIG. 50

STATE OF THE APPLICATION	STATE DEFINED BY THE COMBINING SECTION
A c t i v e	DURING EXECUTION
P a u s e d	AT A PAUSE
OTHER THAN THE ABOVE	AT A STOP

FIG. 51

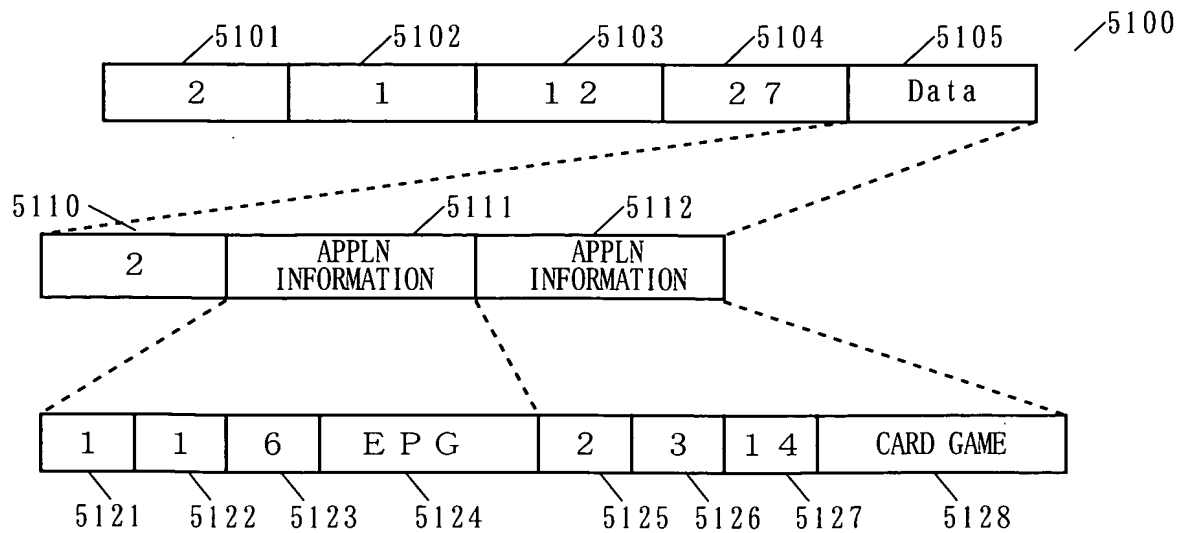


FIG. 52

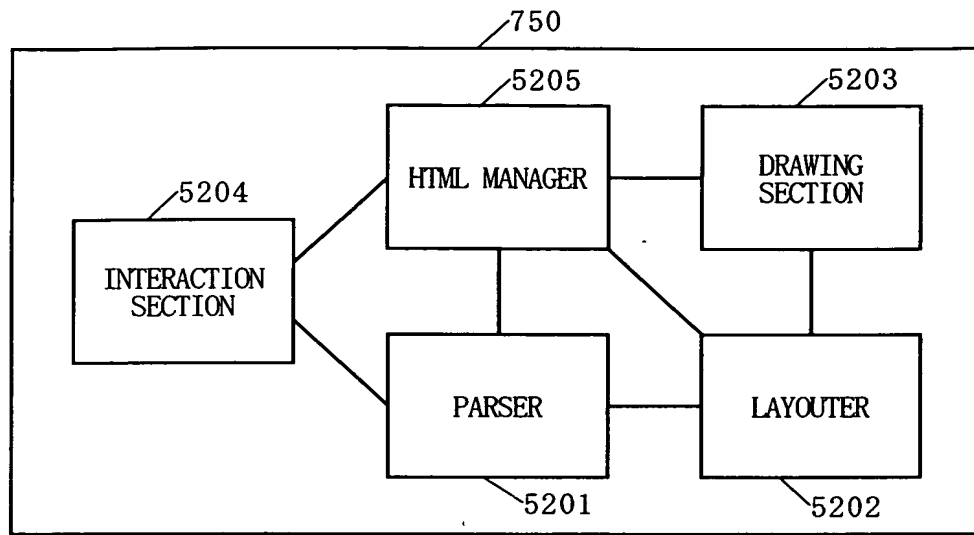


FIG. 53

```

<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//DVB//DTD XHTML DVB-
HTML 1.0//EN"
"http://www.dvb.org/mhp/dtd/dvbhtml-1-0.dtd">
<html xmlns="http://www.w3c.org/1999/xhtml">
<head>
<link rel="stylesheet" href="sampleCSS.css" type="text/css">
</head>
<body id="body">
<H1>INTRODUCE WEATHER FORECAST SERVICES OF VARIOUS COUNTRIES </H1> 5311
<a class="param1" href="dvb://1.2.1/Japan_Weather.html">
Japan</a> 5312
<br></br>
<a class="param2" href="dvb://1.2.2/USA_Weather.html">
USA</a> 5313
<br></br>
<a class="param3"
href="dvb://1.2.3/Germany_Weather.html"> 5314
Germany</a>
</body>
</html>

```

FIG. 54

```

H1 {position:absolute;top:50px;left:50px;}
a.param1 {position:absolute;top:200px;left:100px;}
a.param2 {position:absolute;top:300px;left:100px;}
a.param3 {position:absolute;top:400px;left:100px;}

```

FIG. 55

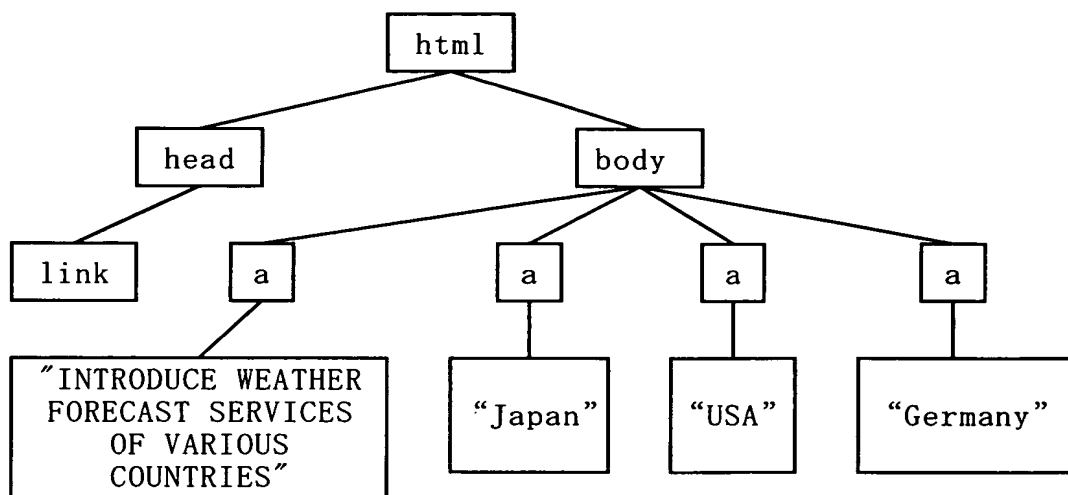
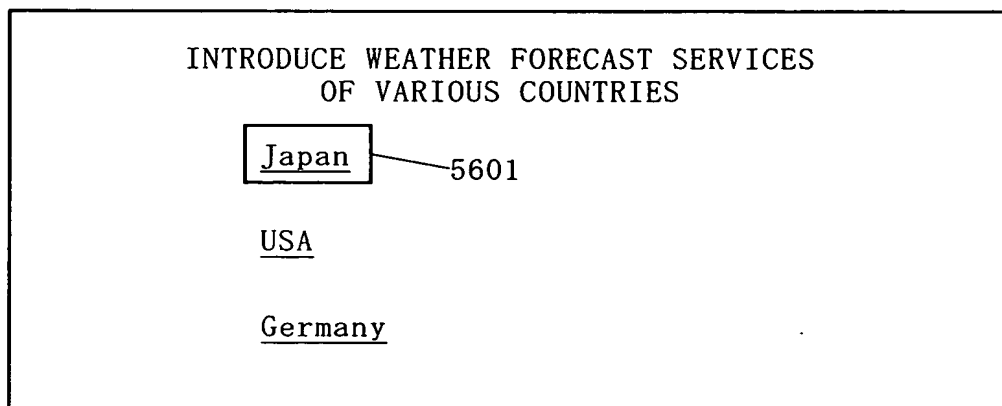


FIG. 56



F I G. 5 7

WEATHER FORECAST

TOKYO	CLOUDY
OSAKA	FINE
FUKUOKA	RAIN

FIG. 58

```

<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//DVB//DTD XHTML DVB-HTML
1.0//EN"
"http://www.dvb.org/mhp/dtd/dvbhtml-1-0.dtd">
<html xmlns="http://www.w3c.org/1999/xhtml">
<head>
<script type="text/javascript">
  <!--
    function ChangeDOMTree(){
      ...
    }
  //-->
</script>
</head>
<body>
<table>
  <tr>
    <td> SEA </td>
  </tr>
  <tr>
    <td> MOUNTAIN </td>
  </tr>
</table>
<form>
  <input type="button" value="DETAILED INFORMATION"
    onclick= ChangeDOMTree() >
</input>
</form>
</body>
</html>

```

5801

5802

FIG. 59

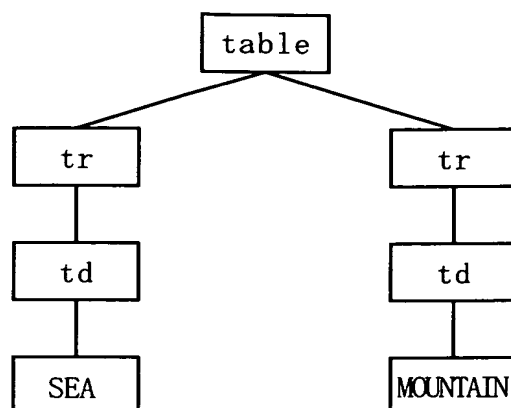


FIG. 60

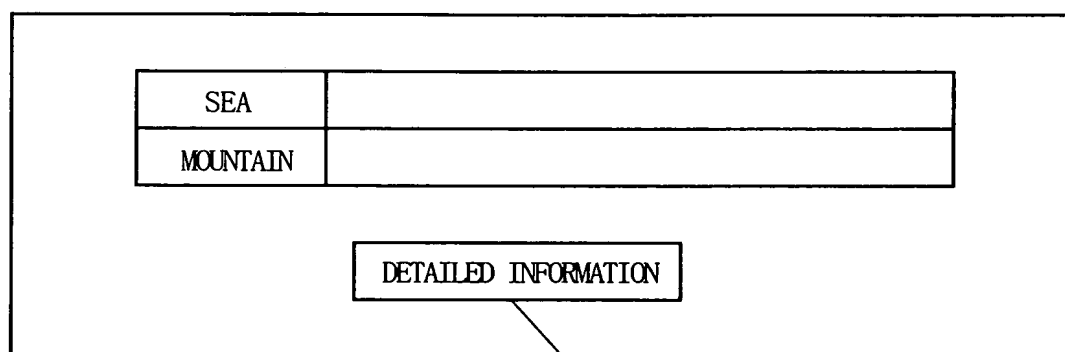


FIG. 61

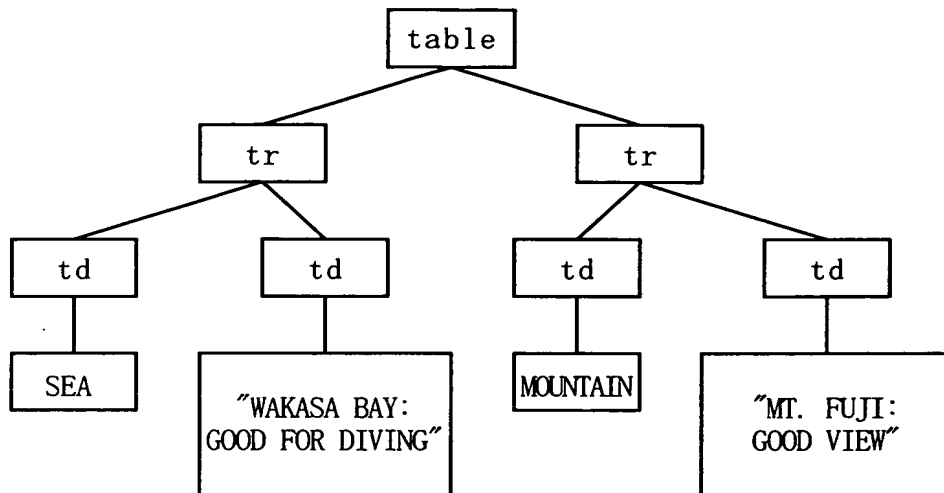


FIG. 62

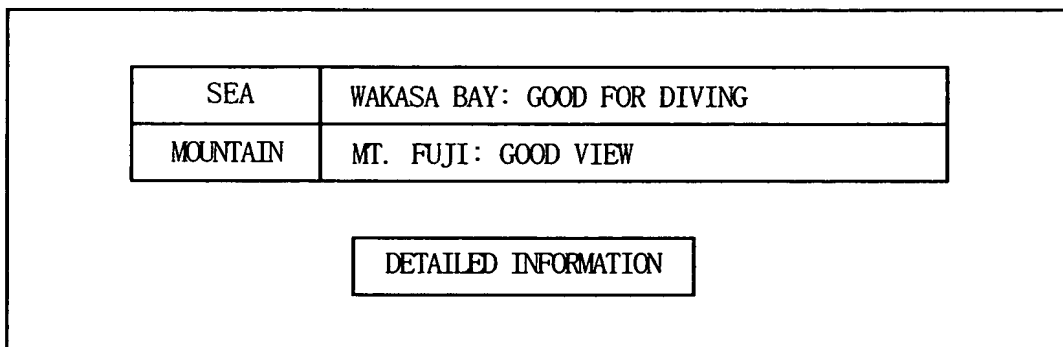


FIG. 63

DATA ID	CONTROL INFORMATION	DATA NAME	APPLN PRIORITY LEVEL
1	autostart	WEATHER FORECAST	5 4
2	present	HOLIDAY OUTING INFORMATION	2 2

FIG. 64

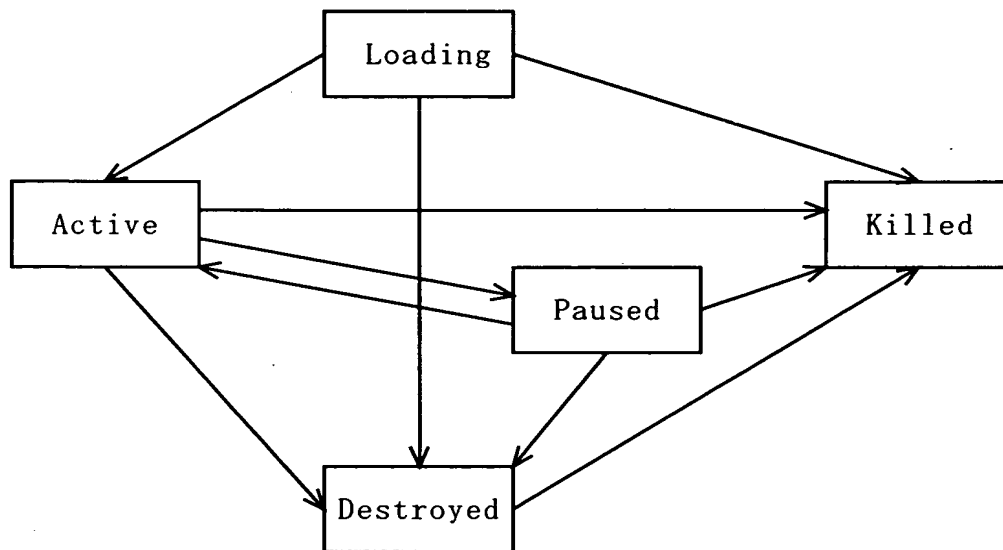
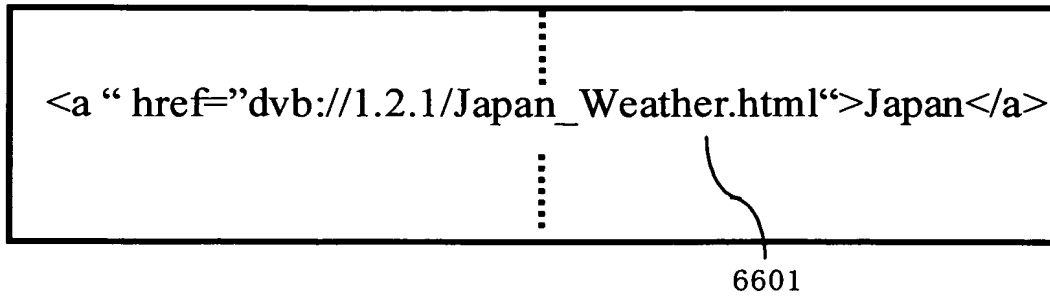


FIG. 65

DATA ID	CONTROL INFORMATION	DATA NAME	APPLN PRIORITY LEVEL
1	kill	WEATHER FORECAST	5 4
2	present	HOLIDAY OUTING INFORMATION	2 2

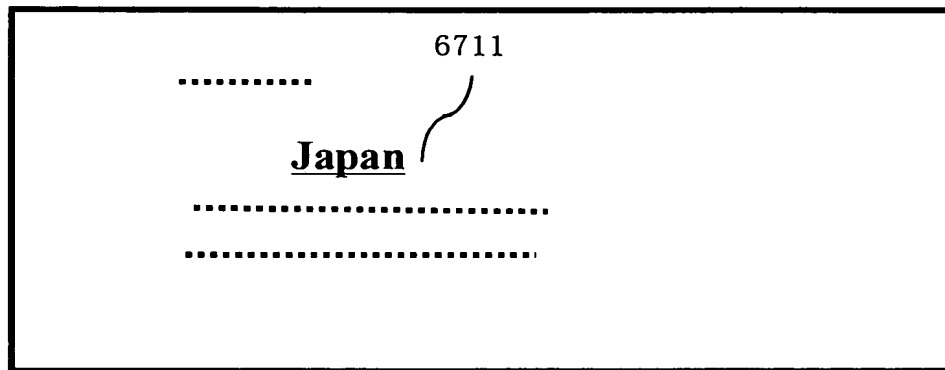
FIG. 66



The diagram shows a rectangular box containing the HTML code: `<a "href="dvb://1.2.1/Japan_Weather.html">Japan`. A vertical dotted line is positioned between the opening and closing tags. A curved line points from the label '6601' below the box to the closing tag.

6601

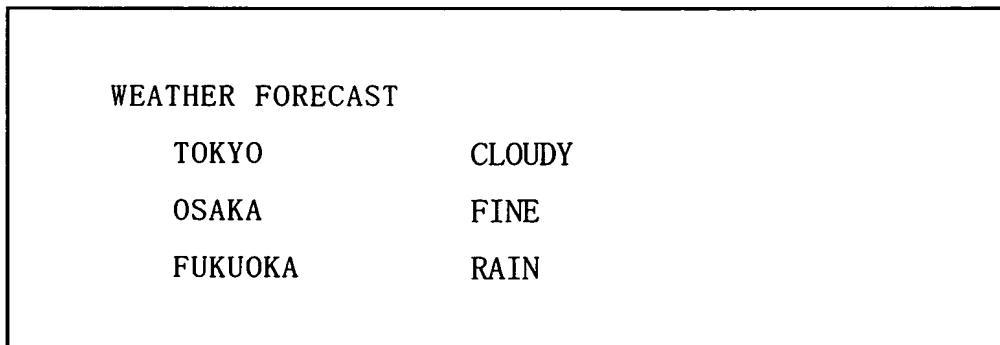
FIG. 67



The diagram shows a rectangular box containing the word Japan. Above the word is a dotted line, and below it are two more dotted lines. A curved line points from the label '6711' above the box to the word.

6711

FIG. 68



The diagram shows a rectangular box containing a table with the title 'WEATHER FORECAST'. The table has two columns: the first column lists city names (TOKYO, OSAKA, FUKUOKA) and the second column lists weather conditions (CLOUDY, FINE, RAIN).

WEATHER FORECAST	
TOKYO	CLOUDY
OSAKA	FINE
FUKUOKA	RAIN

F I G . 6 9

STATE OF THE HTML DATA	STATE OF THE HTML BROWSER
AT LEAST ONE HTML DATA IS IN THE "Active" STATE	DURING EXECUTION
NO HTML DATA IS IN THE "Active" STATE AND AT LEAST ONE HTML DATA IS IN THE "Paused" STATE	AT A PAUSE
OTHER THAN THE ABOVE	AT A STOP

F I G . 7 0

STATE OF THE HTML DATA	STATE DEFINED BY THE COMBINING SECTION
A c t i v e	DURING EXECUTION
P a u s e d	AT A PAUSE
OTHER THAN THE ABOVE	AT A STOP

F I G . 7 1

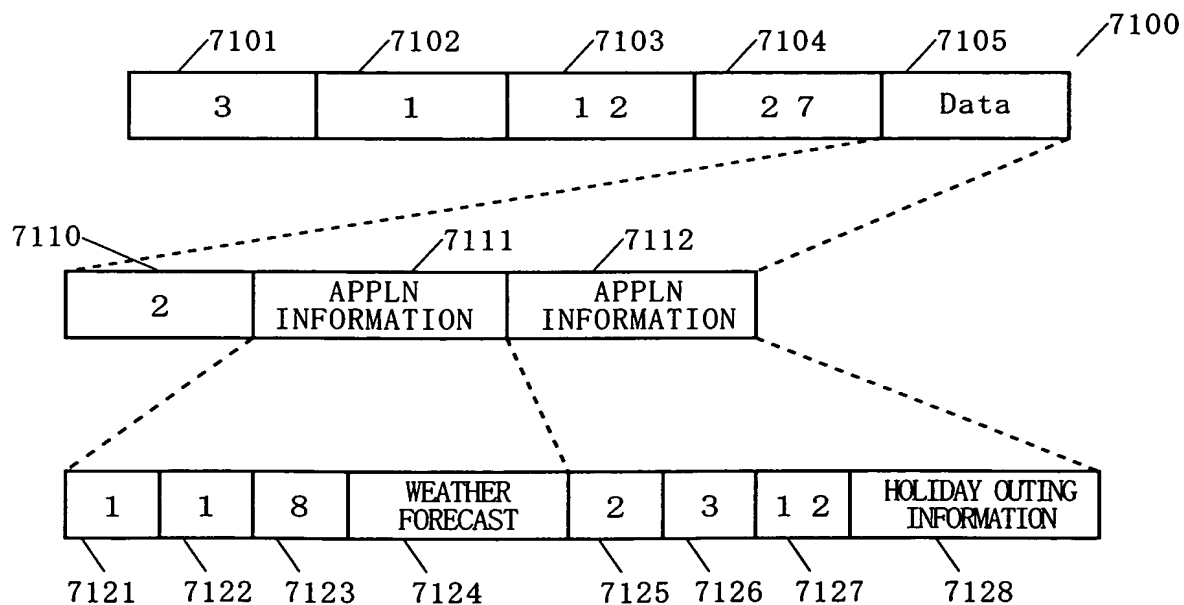


FIG. 72

STATE OF THE MAILER	STATE DEFINED BY THE COMBINING SECTION
ACTIVE	DURING EXECUTION
AT A STOP	AT A STOP

FIG. 73

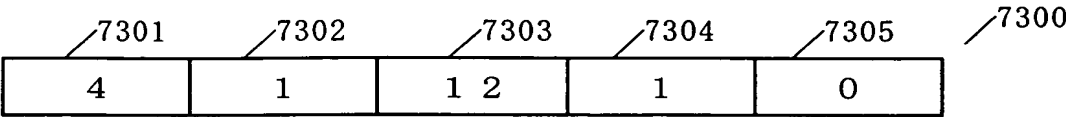


FIG. 74

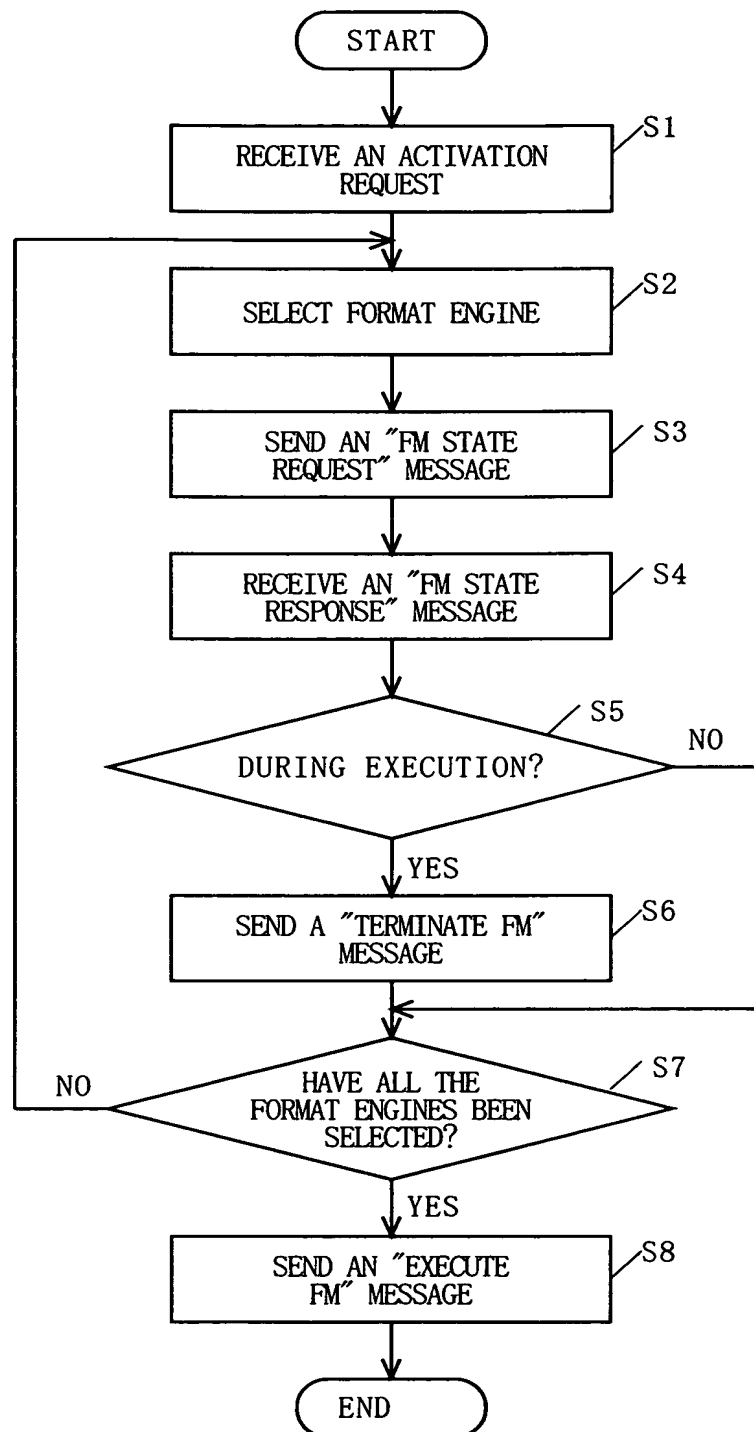


FIG. 75

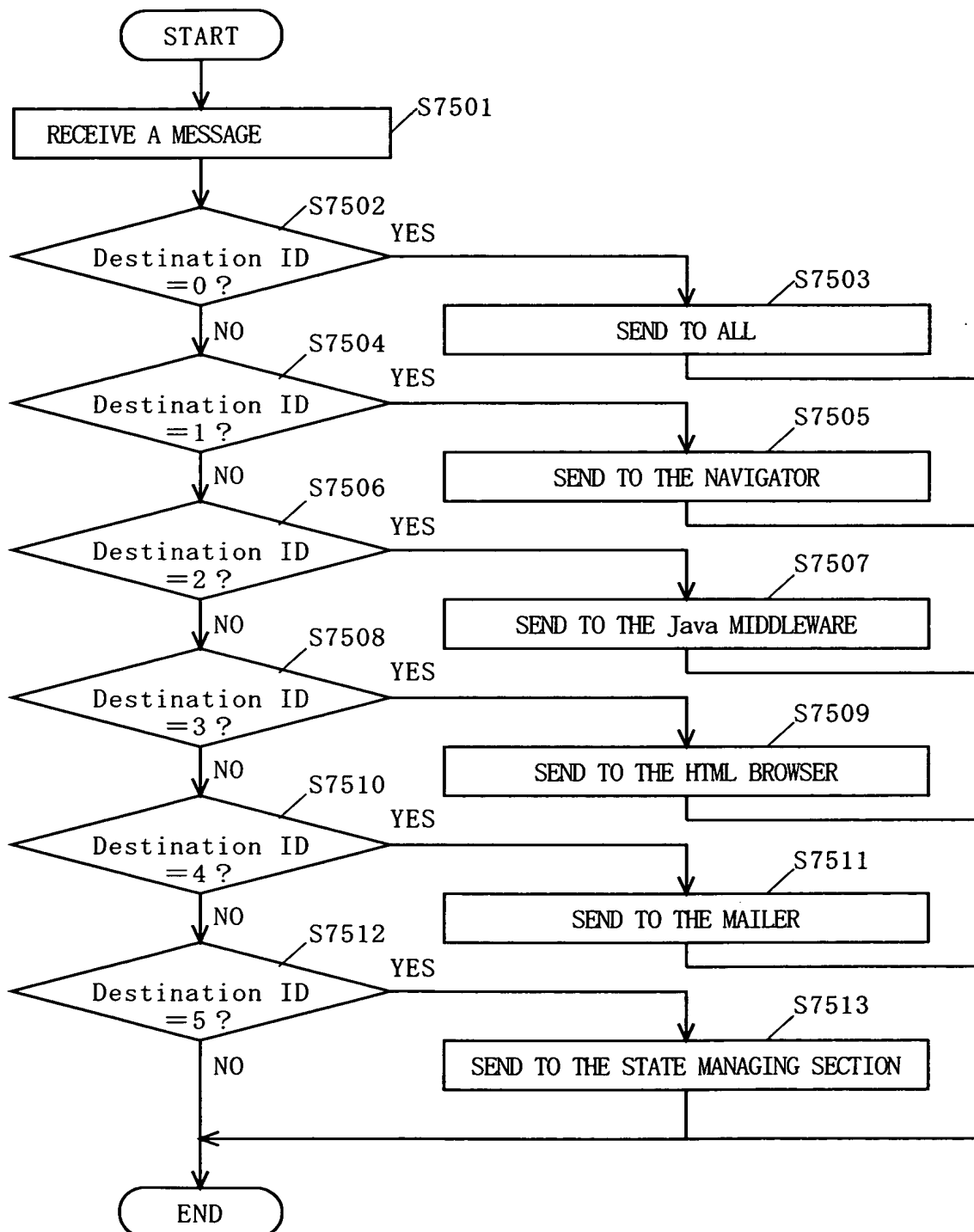


FIG. 76

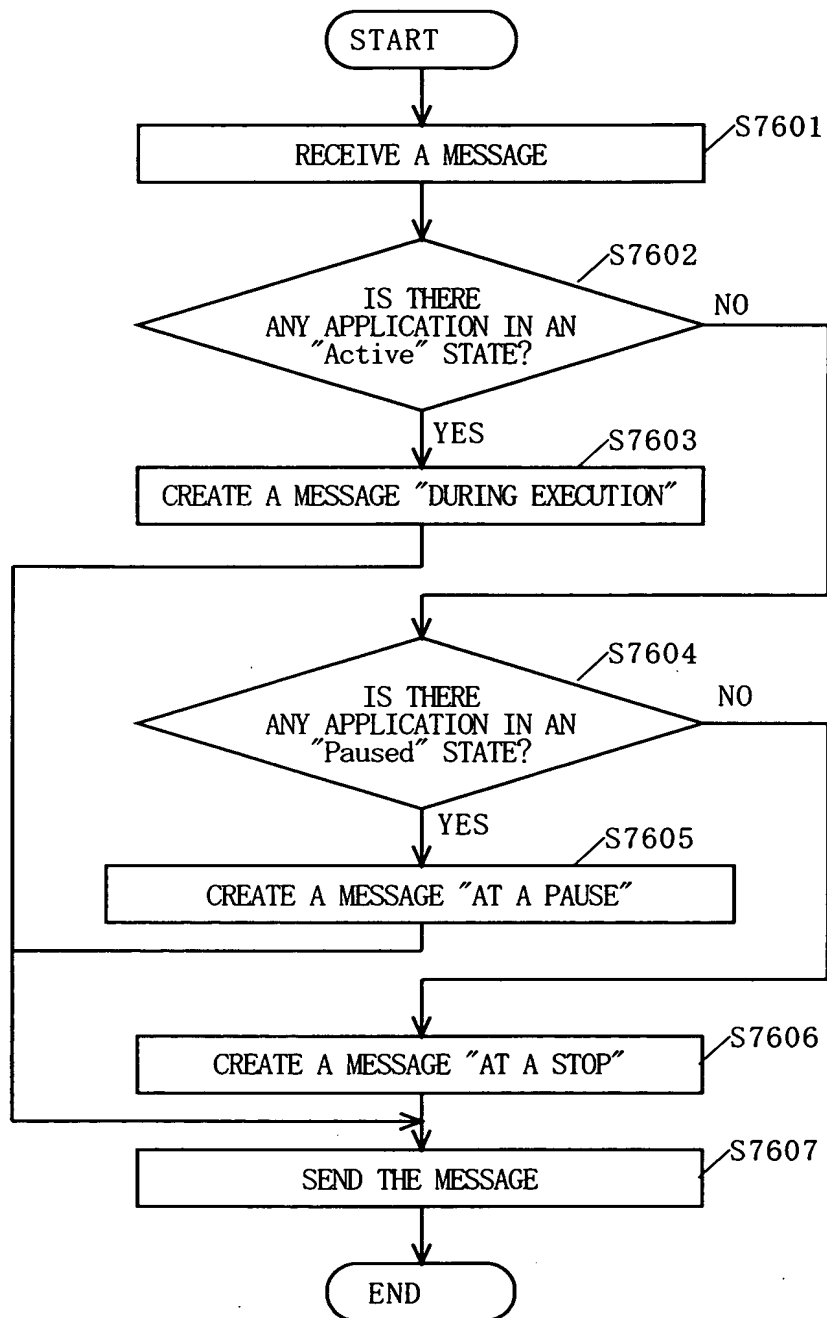


FIG. 77

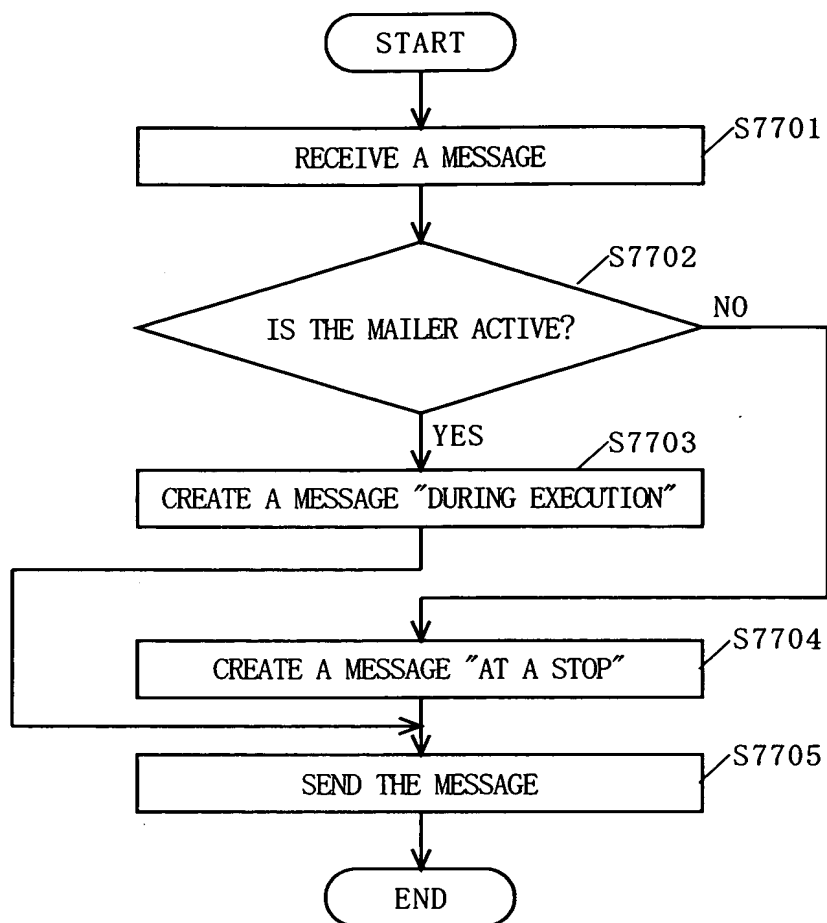


FIG. 78

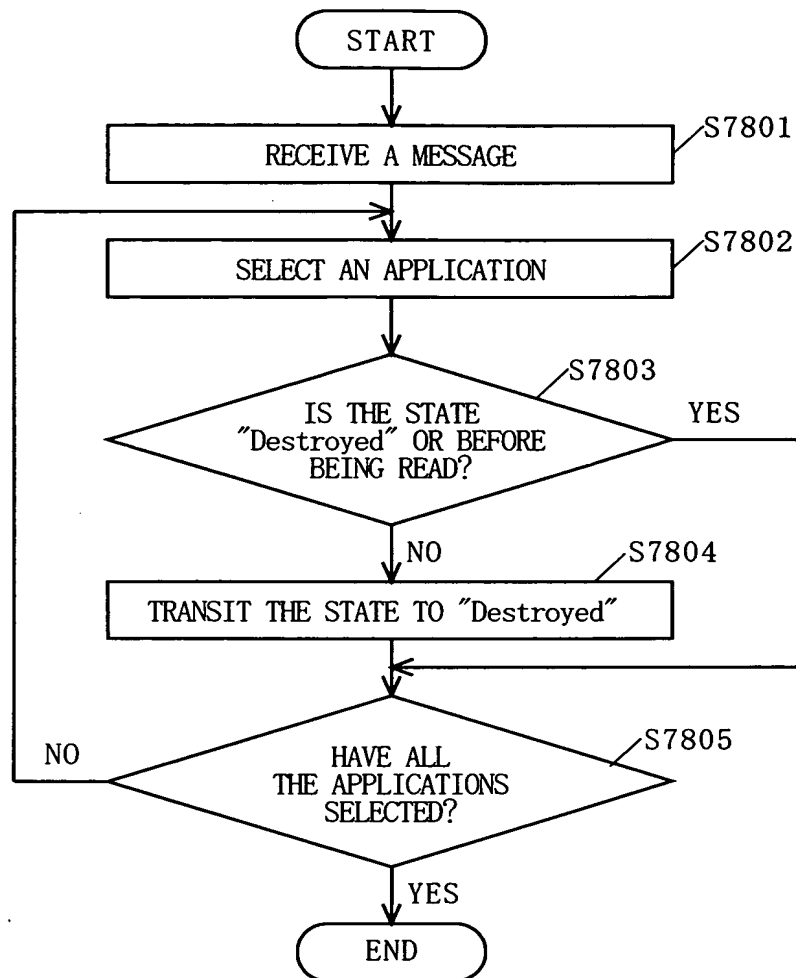


FIG. 79

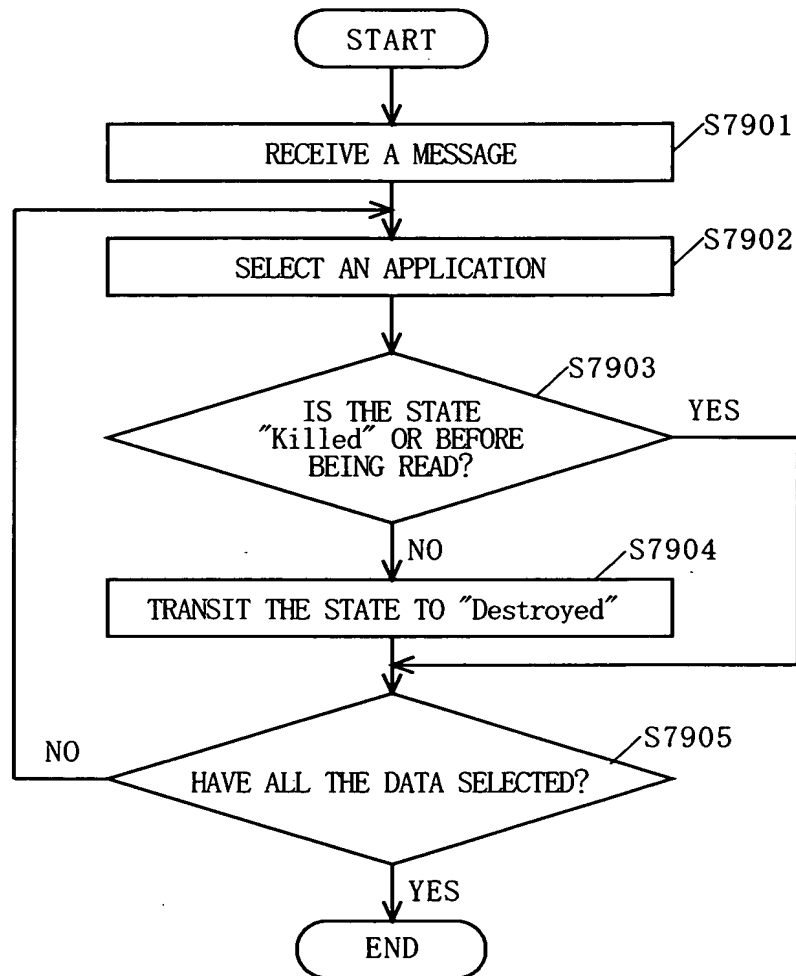


FIG. 80

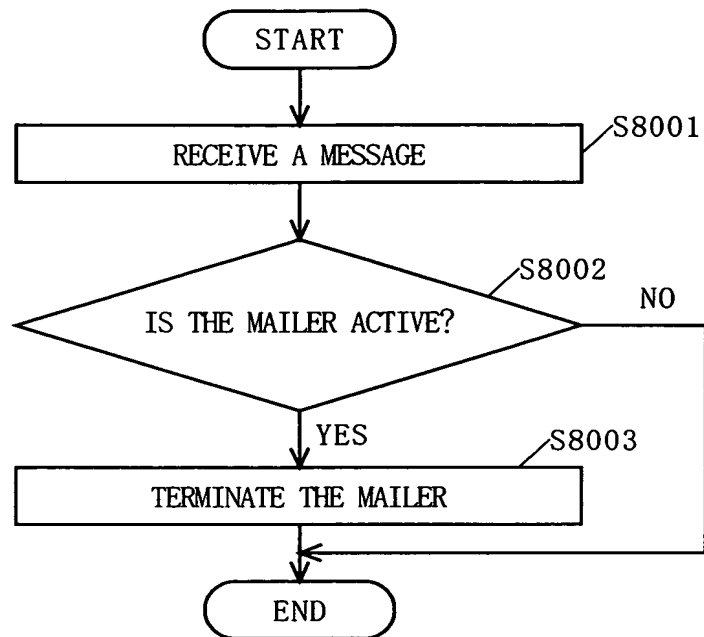


FIG. 81

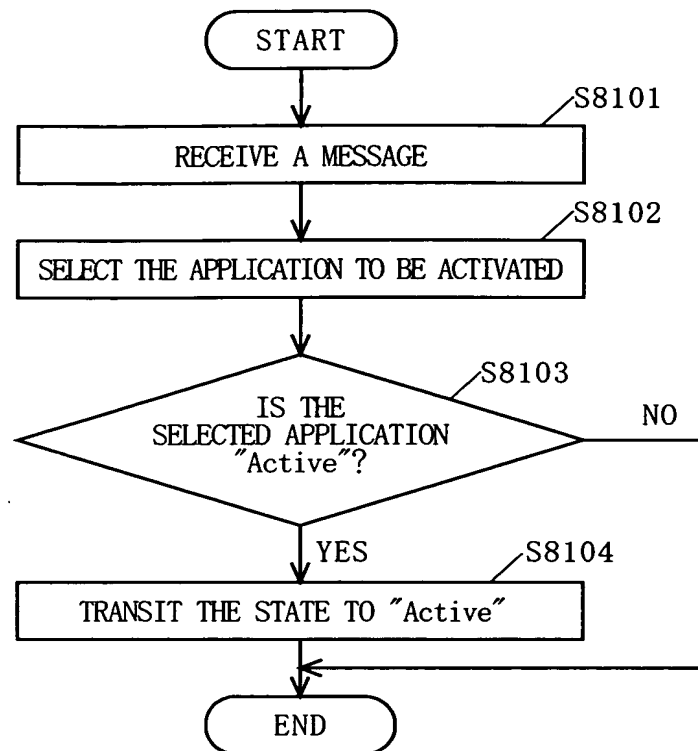


FIG. 82

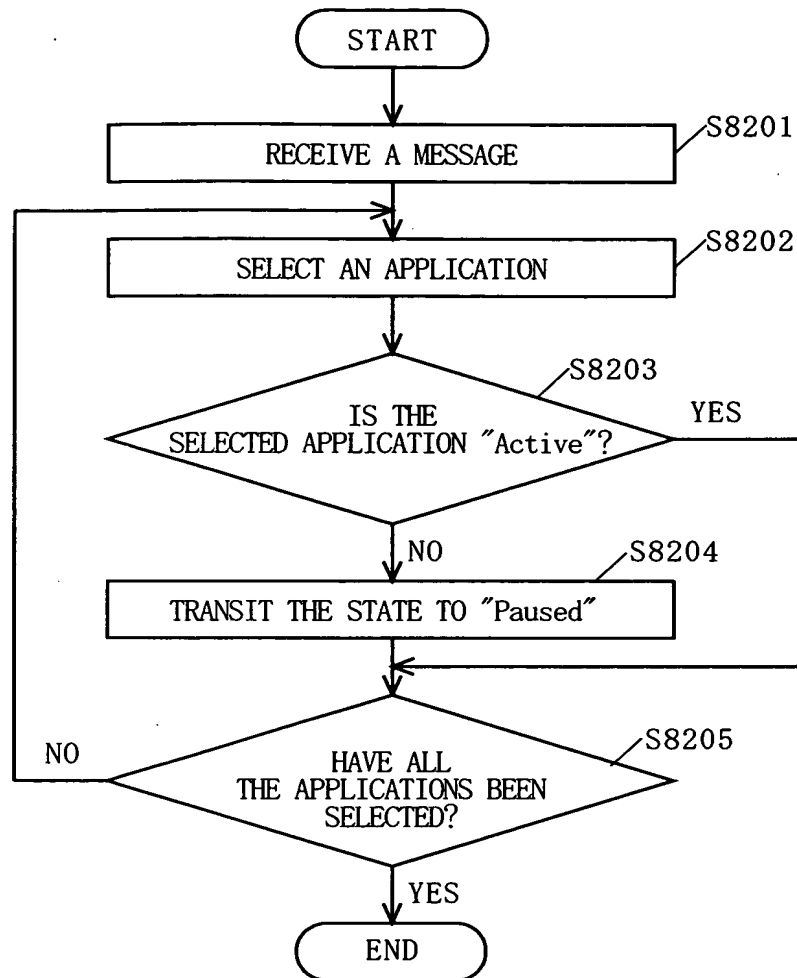


FIG. 83

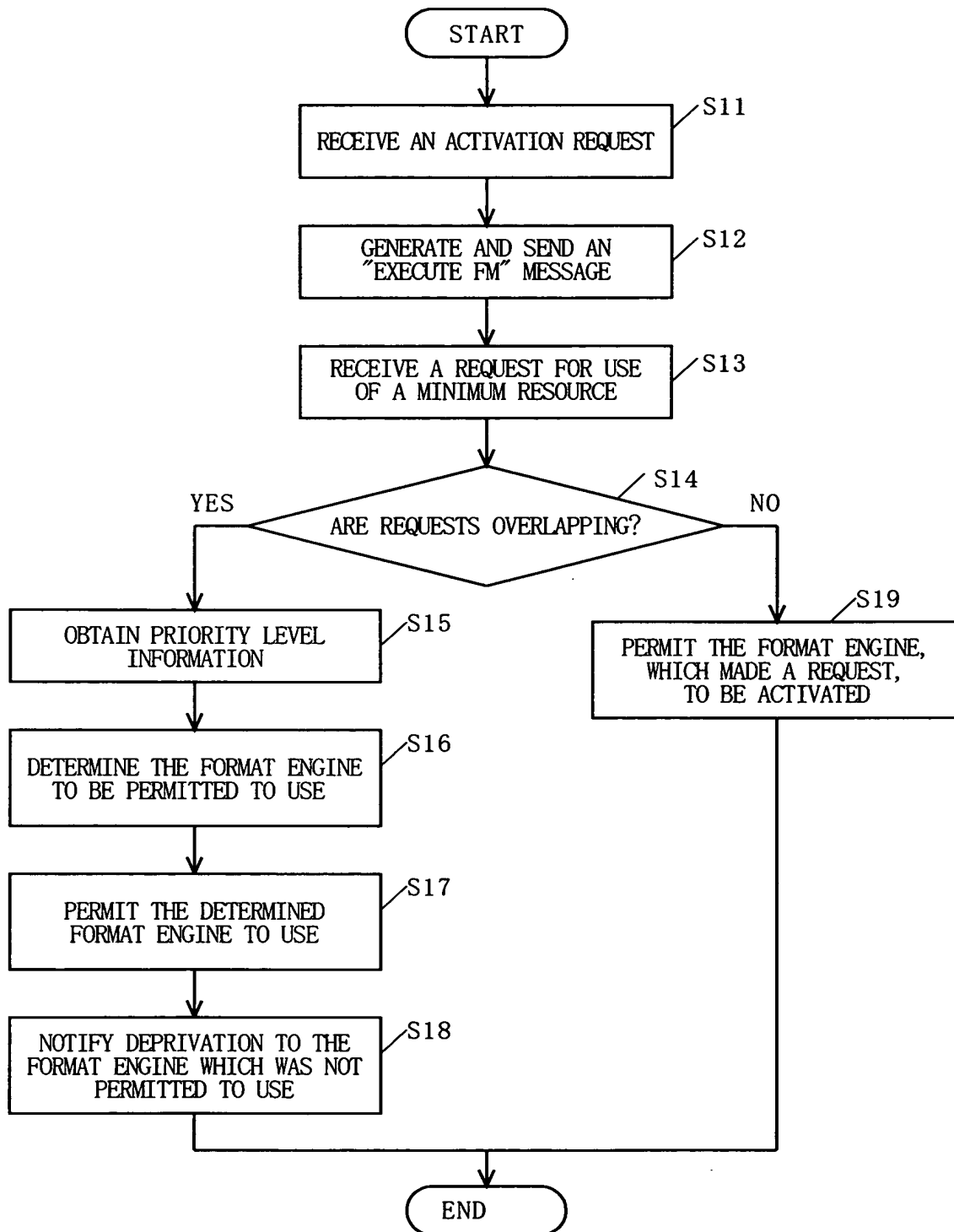


FIG. 84

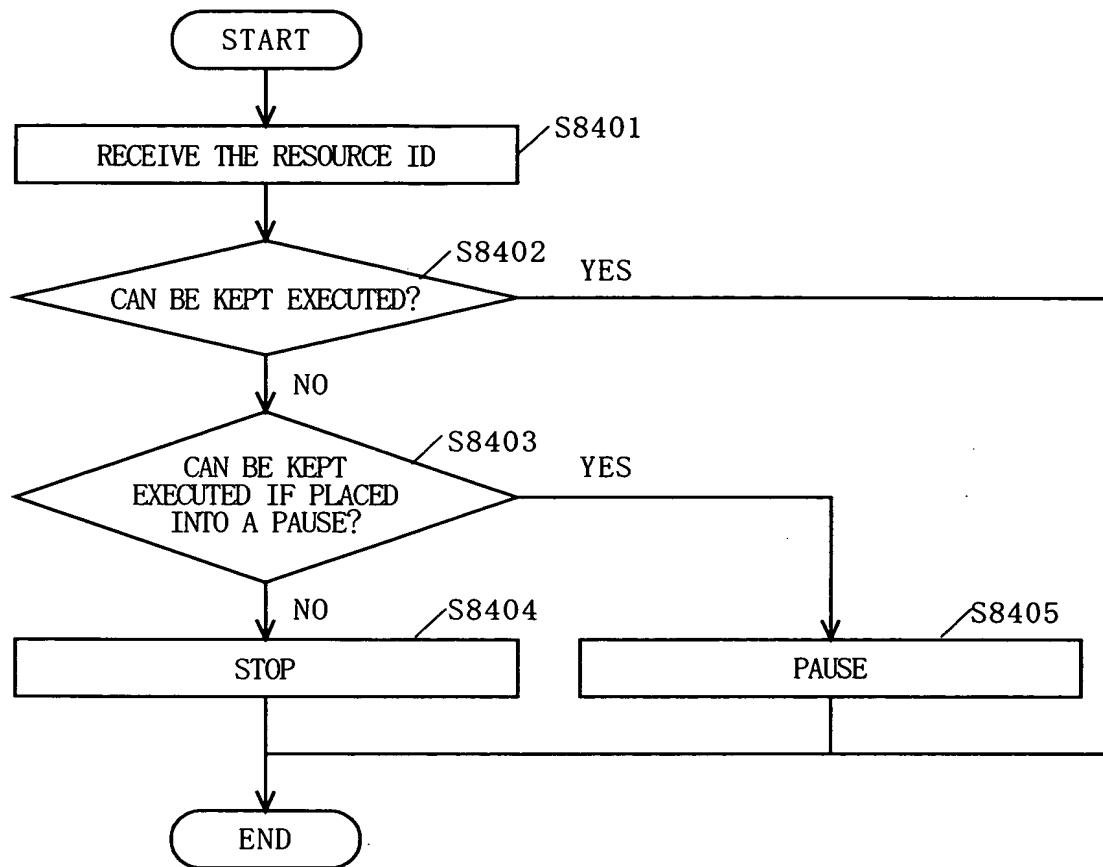


FIG. 85

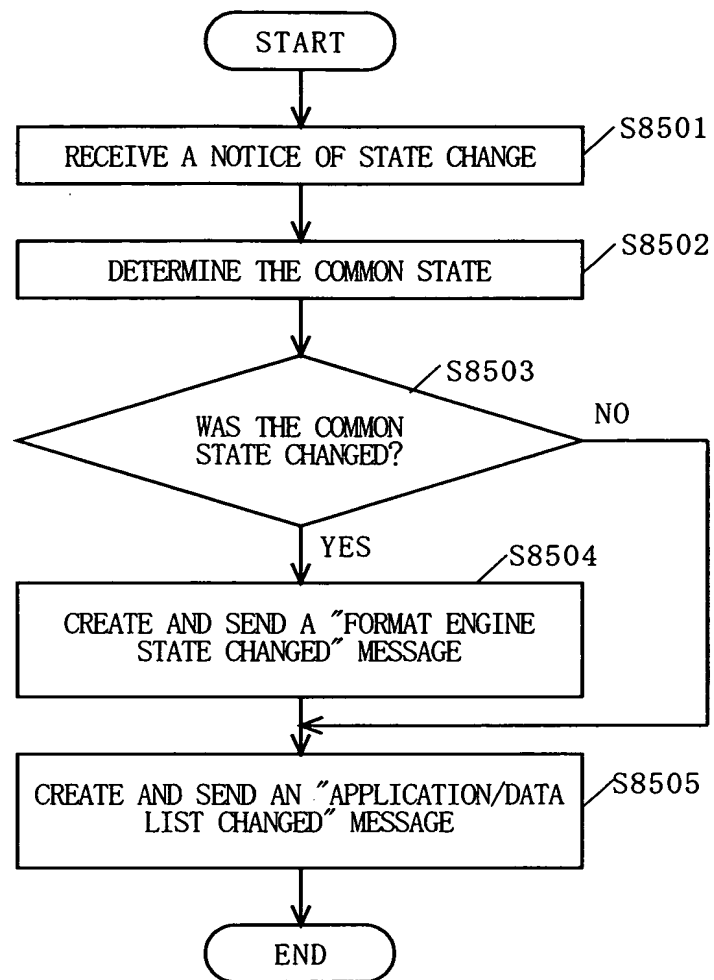


FIG. 86

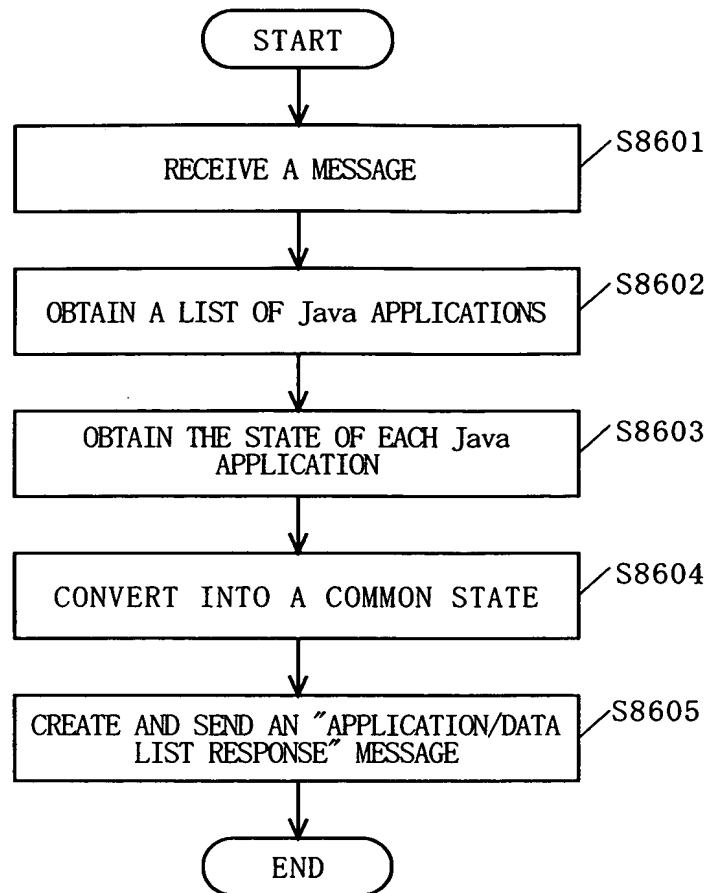


FIG. 87

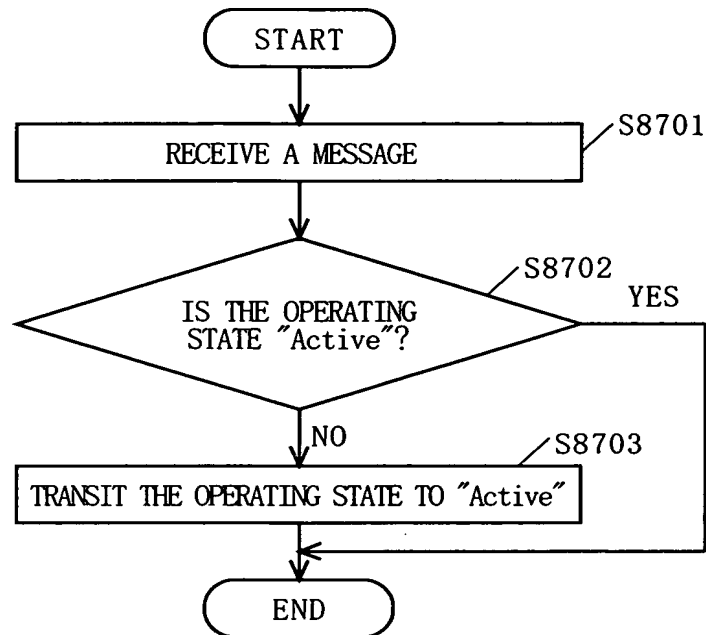


FIG. 88

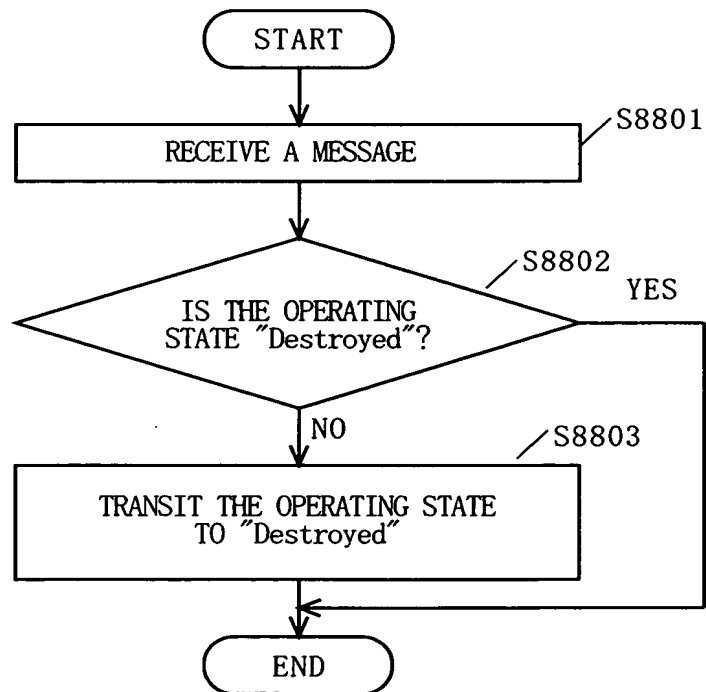


FIG. 89

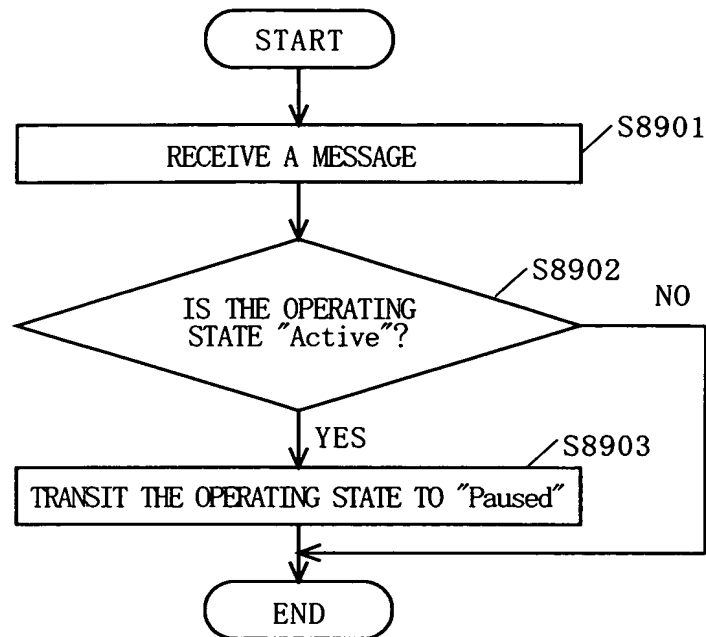


FIG. 90

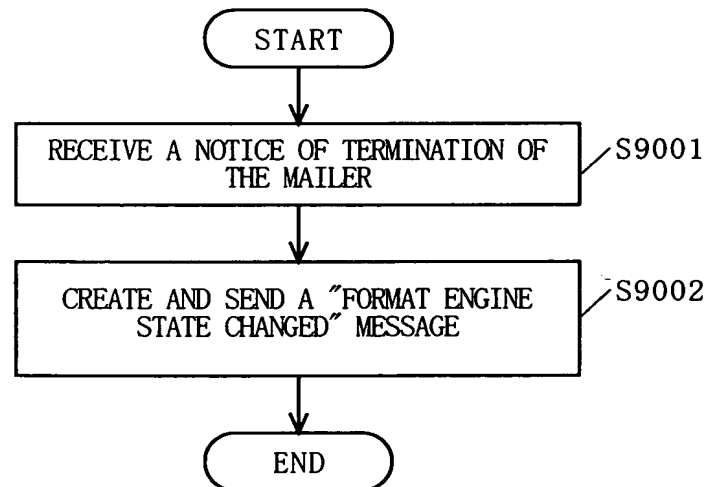


FIG. 91

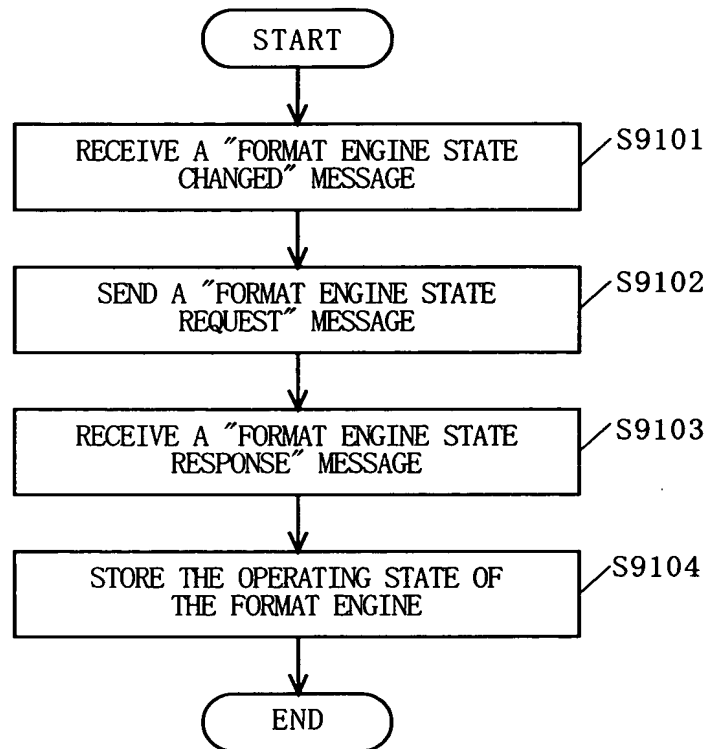
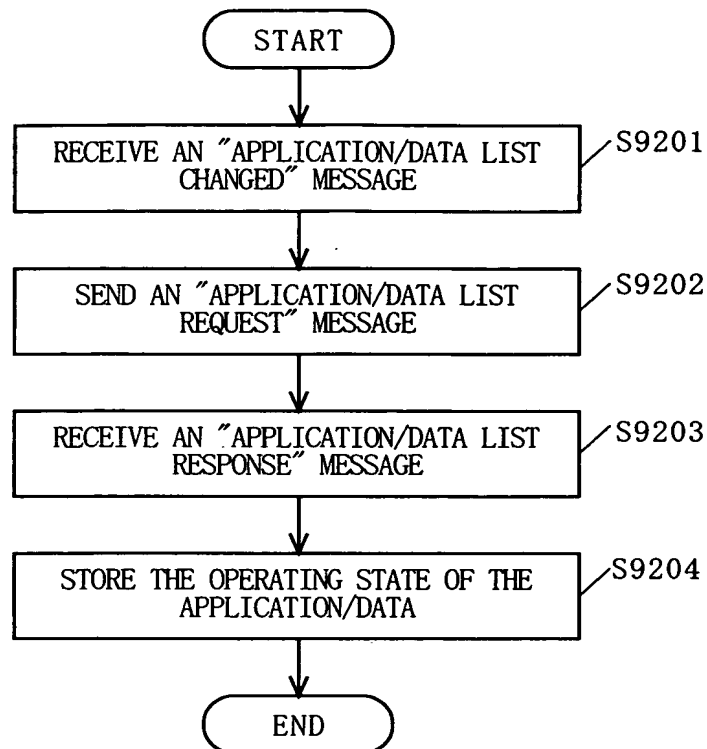


FIG. 92



F I G . 9 3

Java MIDDLEWARE	HTML BROWSER	MAILER
AT A STOP	AT A STOP	AT A STOP
AT A PAUSE	AT A STOP	AT A STOP
AT A STOP	AT A PAUSE	AT A STOP
AT A PAUSE	AT A PAUSE	AT A STOP

FIG. 94 PRIOR ART

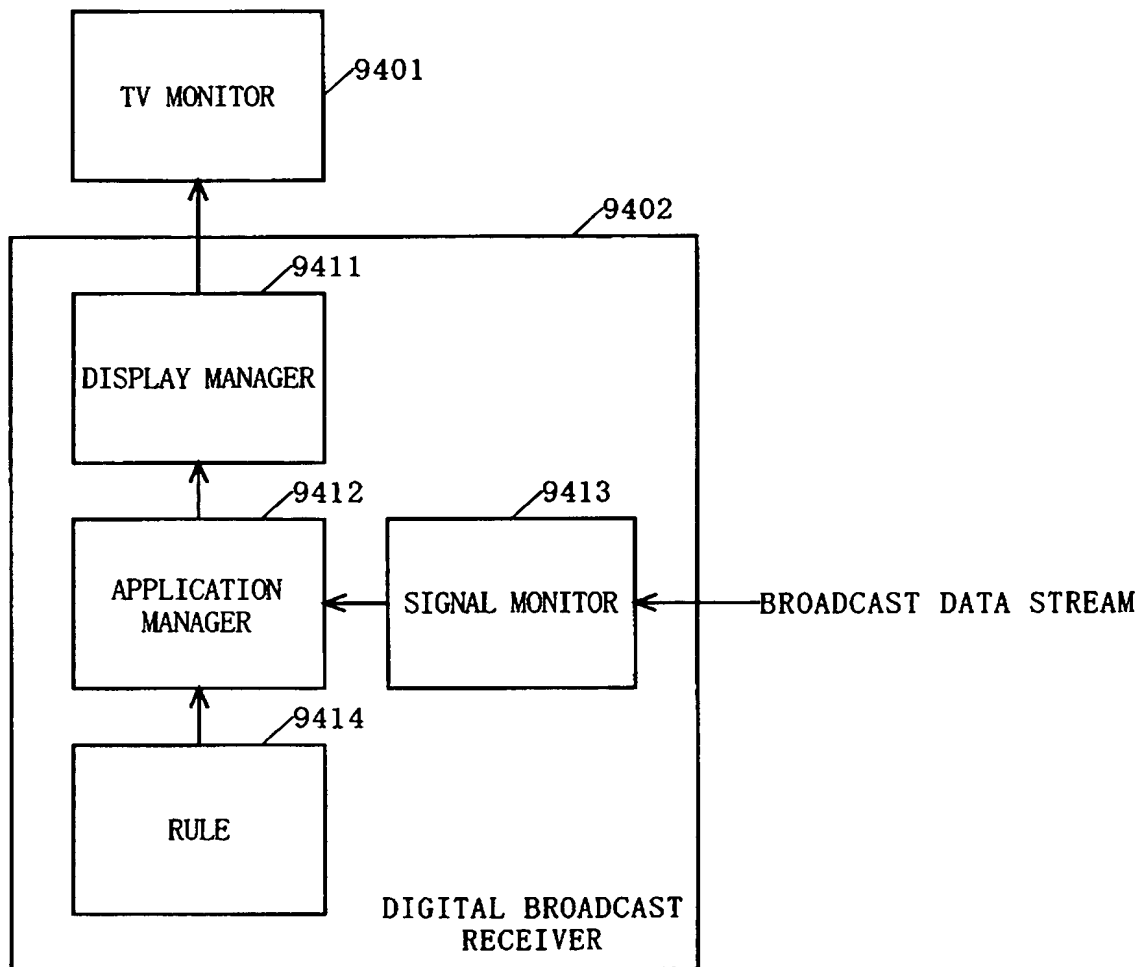


FIG. 95 PRIOR ART

